State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E.
Executive Director

SHANE M. MARSHALL, P.E.
Deputy Director

June 2, 2016

TO ALL BIDDERS CONCERNED:

SUBJECT:
F-I15-7(333)324 / Pin 014591
I-15; Bonded Overlay, MP 323.6 to 331.35
Addendum Number: 3

To Whom It May Concern:

We are submitting the following changes to the subject project.

1. The "Bidding Schedule" has been revised.

   Bidders **must download** the revised Bidder's Schedule "Bid Item Version **3**" from the UDOT website at http://www.udot.utah.gov/index.php?m=c&tid=317

   Item No. 5, 01892001P "Reconstruct Catch Basin" quantity has been changed from 510 Each to 50 Each.

   Item No. 20, 029610010 "Rotomilling" has been deleted and replaced with 029610025 "Rotomilling – 1 ½ Inch" the quantity was revised from 11 sq. yd. to 776,447 sq. yd.

2. The "Measurement and Payment" has been revised.

   Item 029610010 "Rotomilling" has been deleted and replaced with Item 029610025 "Rotomilling - 1 ½ Inch".

3. Special Provision 00221S "Bidding Contract Time" has been revised.

4. Plan Sheets RD-01 to RD-32 has been revised.

5. Summary Sheets SM-01, 02 & SM-14 has been revised.

6. Typical Section sheets TS-02 to TS-05 has been revised.

7. Detail Sheet DT-01 has been revised.

Please consider these revisions before submitting your bid.

***** DUE TO THE SIZE ONLY THE COVER LETTER WILL BE E-MAILED OR FAXED. *****

*** ADDENDUM IS AVAILABLE AND MAY BE DOWNLOADED FROM THE UDOT WEBSITE AT http://eprpw.dot.utah.gov

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED WHEN YOU SUBMIT YOUR BID.
YOUR BID WILL BE DECLARED NON-RESPONSIVE IF YOU DO NOT ACKNOWLEDGE THIS ADDENDUM.

Sincerely,

Nathan Peterson
Project Manager

Attach:

Utah Department of Transportation
Bidder's Schedule

Bid Opening Date: 6/14/2016
Region: REGION 1
Project Number: F-I15-7(333)324
County: DAVIS
PIN Description: I-15; Bonded Overlay, MP 323.6 to 331.35
Concept: Preservation - Roadway
Location: I-15; MP 323.60 - 331.35 & I-15; MP 323.60 - 331.35

Funding: FEDERAL
Bid Items Version#: 3
DBE Goal: 2.00%

#	Item	Description	Quantity	Unit
10 - ROADWAY				
1	012850010	Mobilization	1	lump sum
2	013150010	Public Information Services	1	lump sum
3	015540005	Traffic Control	1	lump sum
4	017210010	Survey	1	lump sum
5	01892001P	Reconstruct Catch Basin	50	each
6	02735001P	Micro-Surfacing Scratch Coat	27324	foot
7	02741005*	Lane Leveling	2	ton
8	027680005	4 inch Pavement Marking Tape - White	137225	foot
9	027680010	8 inch Pavement Marking Tape - White	140659	foot
10	027680015	4 inch Pavement Marking Tape - Yellow	88156	foot
11	02768002P	Pavement Message (Preformed Thermoplastic)	482	each
12	027870020	Bonded Wearing Course - Type B	776436	square yard
13	028910020	Sign Type A-1	1628	square foot
14	028910075	Sign Type A-2	264	square foot
15	02891024P	Sign Panel Replacement Greater than or Equal to 20 Square Feet	4	each
16	028910270	Remove Sign Less Than 20 Square Feet	2	each
17	028910275	Remove Sign Greater Than or Equal to 20 Square Feet	17	each
18	028910335	Constant Slope Barrier Mounted Tubular Steel Sign Base (B5A)	33	each
19	02891045P	Post 4 Inch Nominal Schedule 80 Standard Pipe	33	each
20	029610025	Rotomilling - 1 1/2 Inch	776447	square yard
180 - TIME AND/OR LANE RENTAL				
21	00221000*	Contract Time Date Range: 30 - 210	0	day

Note: Item numbers ending with "" or "P" identify a change to the Standard Specification, Supplemental Specifications or Measurement and payment. Read all related documents carefully.

Measurement and Payment

Project # F-I15-7(333)324

06/01/2016

Item #	Bid Item Number	Bid Item Name	UOM
1	012850010	Mobilization	lump sum

Amount Paid	When Paid
The lesser of 25% of Mobilization or 2.5% of contract	With first estimate
The lesser of 50% of Mobilization or 5% of contract	With estimate following completion of 5% of contract
The lesser of 75% of Mobilization or 7.5% of contract	With estimate following completion of 10% of contract
The lesser of 100% of Mobilization or 10% of contract	With estimate following completion of 20% of contract
Amount bid in excess of 10% of contract price.	Project Acceptance-Final

Includes all costs associated with Railroad Flagging, inspection, and cleanup crew according to Section 00725.

2	013150010	Public Information Services	lump sum

Amount Paid	When Paid
25% of bid item amount.	With first estimate
Remaining portion of bid item paid as a percentage of the contract completed.	With each subsequent estimate

3	015540005	Traffic Control	lump sum

Amount Paid	When Paid
25% of the bid item amount.	With first estimate
Remaining portion of bid item paid as a percentage of the contract completed.	With each subsequent estimate

4	017210010	Survey	lump sum

25% of the bid item amount	When the project is 5% complete
A total of 40% of bid item amount	When the project is 10% complete
A total of 75% of bid item amount	When the project is 50% complete
A total or 90% of bid item amount	When the project is 75% complete

The Department retains the remaining 10 percent of bid item amount until the project is completed and the red-lined hard copy plan set showing as-constructed features denoting changes from the original design is provided to the Engineer and verified complete.

5	01892001P	Reconstruct Catch Basin	each

Do not reconstruct catch basins that are less than 1 inch below final grade unless directed by the Engineer.

6	02735001P	Micro-Surfacing Scratch Coat	foot

Measurement is along the existing rumble strips to be filled. Do not include gaps. Fill to flush with existing pavement and allow to cure.

7	02741005*	Lane Leveling	ton

Includes aggregates, asphalt binder, hydrated lime, tack coat, and other additives, etc.

8	027680005	4 inch Pavement Marking Tape - White	foot

A. Do not measure the gap in the broken line.
B. Include all costs for the Manufacturer's Service Representative and other technical assistance in the contract unit price.

9	027680010	8 inch Pavement Marking Tape - White	foot

A. Do not measure the gap in the broken line.
B. Include all costs for the Manufacturer's Service Representative and other technical assistance in the contract unit price.

10	027680015	4 inch Pavement Marking Tape - Yellow	foot

A. Do not measure the gap in the broken line.
B. Include all costs for the Manufacturer's Service Representative and other technical assistance in the contract unit price.

11	02768002P	Pavement Message (Preformed Thermoplastic)	each

Measurement
A. Letter = one message
B. Arrow = one message
C. Multi-headed arrow = one message per arrow
D. School crossbars = one message per 24 inch x 10 ft bar
E. Crosswalk = two messages per lane and two messages per shoulder
F. Stop Bar = one messages per lane and one message per shoulder
G. Railroad crossing markings = seven messages per lane
1. R = one message each (two required)
2. X = two messages
3. Transverse Bar = one message each (two required)
4. Stop Bar = one message
H. HOV Lane Symbol = one message

Item #	Bid Item Number	Bid Item Name	UOM
	G. Include all costs for the Manufacturer's Service Representative and other technical assistance in the contract unit price.		
12	027870020	Bonded Wearing Course - Type B	square yard
13	028910020	Sign Type A-1	square foot
14	028910075	Sign Type A-2	square foot
	Non Standard size signs. Includes frame or mounting bar as required in SN Series Standard Drawings.		
15	02891024P	Sign Panel Replacement Greater than or Equal to 20 Square Feet	each
	Includes removal of existing panel and all hardware. Includes all hardware, equipment, and labor necessary to mount new panel to existing posts.		
16	028910270	Remove Sign Less Than 20 Square Feet	each
17	028910275	Remove Sign Greater Than or Equal to 20 Square Feet	each
18	028910335	Constant Slope Barrier Mounted Tubular Steel Sign Base (B5A)	each
	Includes installation of top casting, barrier plate with stub, and hardware as required by SN Series Standard Drawings.		
19	02891045P	Post 4 Inch Nominal Schedule 80 Standard Pipe	each
	Includes post, inclined post to base connection plate, and all hardware to mount sign to post as required by SN Series Standard Drawings.		
20	029610025	Rotomilling - 1 1/2 Inch	square yard
	Calculated from length multiplied by the average finished width of rotomilled surface		

March 18, 2016

SPECIAL PROVISION

PROJECT # F-I15-7(333)324
PIN # 14591

SECTION 00221S

BIDDING CONTRACT TIME

Add Section 00221

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Procedures for bidding contract time for the Price + Time bidding process.
   1. Includes incentive/disincentive for early/late completion of project milestones.

B. Description of time component pricing, and time related incentive or disincentive.
   1. Refer to Section 00515M for information regarding bidding time and determination of the low bidder.
   2. Time is a bid item that captures societal costs and is used for evaluation of the low bidder. Incentive/Disincentive is the only time related payment. Refer to this Section, article 1.7.

1.2 RELATED SECTIONS

A. Section 00515M: Contract Award And Execution

B. Section 00555: Prosecution and Progress

1.3 REFERENCES **Not Used**

1.4 DEFINITIONS **Not Used**

1.5 SUBMITTALS **Not Used**

1.6 TIME COMPONENT

A. Determine the bid price for the time component as follows.
   1. Measure contract time in calendar days.
   2. Determine the number of consecutive calendar days required between each start milestone and finish milestone in Table 1.
      a. Consider all requirements of the contract when determining the number of calendar days,
      b. Include the days of the start milestone and finish milestone in the number of calendar days.

B. The Department does not guarantee that any milestone can be completed in the minimum calendar days shown in Table 1.

C. Bidders are responsible to complete the milestones within the time bid and according to project requirements.

D. The Department will consider the bid non-responsive if the bidder:
   1. Does not submit a bid for the time component.
   2. Submits a time component bid for any awardable portion of the contract which is outside the minimum or maximum range.

E. Negative amounts are not permitted for time related bid items.

F. Time is bid in calendar days. Consider seasonal project specific weather conditions during bid preparation.

Table 1

Determination of Calendar Days						
A	**B**	**C**	**D**	**E**	**F**	**G**
TIME SEGMENT	**START MILESTONE**	**FINISH MILESTONE**	**TIME-RELATED COST-RATE**	**TIME-RELATED COST-RATE METHOD**	**MIN**	**MAX**
			Dollars per calendar day	User Cost	Calendar days	Calendar days
1	To be Determined by Contractor, but no earlier than March 1, 2017 and no later than June 20, 2017 **(see note 2)**	Substantial Completion	$10,000	User Cost	30	210

NOTE 1: Contract time is the calendar days bid for Time Segment 1.
NOTE 2: Notify Engineer in writing 7 days prior to beginning.

1.7 INCENTIVES/DISINCENTIVES RELATED TO "TIME"

A. Contract time related charges are determined by multiplying the number of calendar days accrued for each time segment by its corresponding time related cost rate and summing the products.

B. Document accrued time charges per time segment for the duration of the project.

C. Payments or deductions to the Contractor will be based on the difference between the time related bid amounts and the actual time charges assessed for the completed project.
   1. Payment for the incentive will be made in the project accounting system after substantial completion.
   2. Deduction for any milestone disincentive will be made on the first progress payment after the total number of calendar days bid for a milestone has passed without completion as defined in Table 1.

D. Incentive
   1. The Contractor is eligible for incentive when a milestone is achieved before the number of calendar days bid as determined by the Department.

2. Payment is made at the rate shown in column D for the difference between the number of calendar days bid and the actual number of calendar days used to achieve the milestone when Column E is defined as "User Cost."
3. Payment is made at the rate shown in the schedule of liquidated damages in Section 00555 based on the original contract amount when Column E is defined as "Liquidated Damages."
4. The maximum dollar amount eligible for incentive payment for all combined milestones is $ 100,000.

E. Disincentive

1. When the time related cost in Column E is defined as "User Cost."
   a. The Contractor is assessed a disincentive when a milestone is not achieved within the number of calendar days bid as determined by the Department.
   b. Disincentive is assessed at the rate shown in column D for the difference between the number of calendar days bid and the actual number of calendar days used to achieve the milestone.
   c. There is no maximum dollar amount for disincentive charges.
   d. Liquidated damages are charged in addition to disincentive for the difference between the maximum calendar days and the actual number of days to achieve the milestone if milestone completion is not achieved prior to the maximum calendar days shown in Table 1. Refer to Section 00555.

2. When the time related cost in Column E is defined as "Liquidated Damages."
   a. The Contractor is assessed disincentive at the rate shown in the schedule of liquidated damages in Section 00555 based on the original contract amount.
   b. Disincentive is assessed for the difference between the number of calendar days bid and the actual number of calendar days used to achieve the milestone.
   c. Disincentive applies until milestone completion or the maximum calendar days defined in Column G, whichever occurs first.

F. Liquidated Damages
   1. Liquidated damages are assessed according to Section 00555 for the difference between the number of maximum calendar days from Column G and the actual number of calendar days used to achieve the milestone.

G. Timeline of Incentive, Disincentive, and Liquidated Damages
   1. Refer to Figure 1

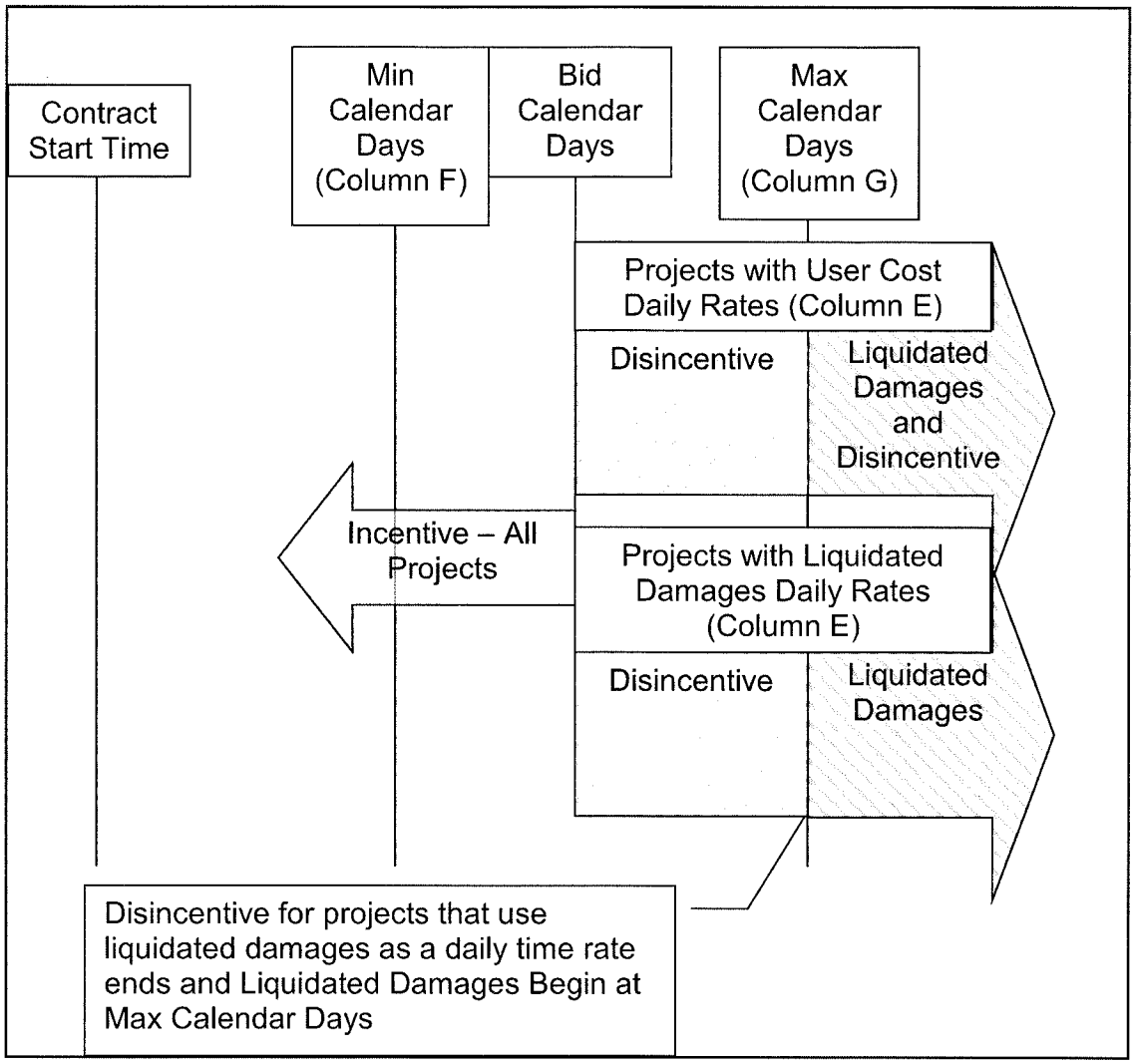
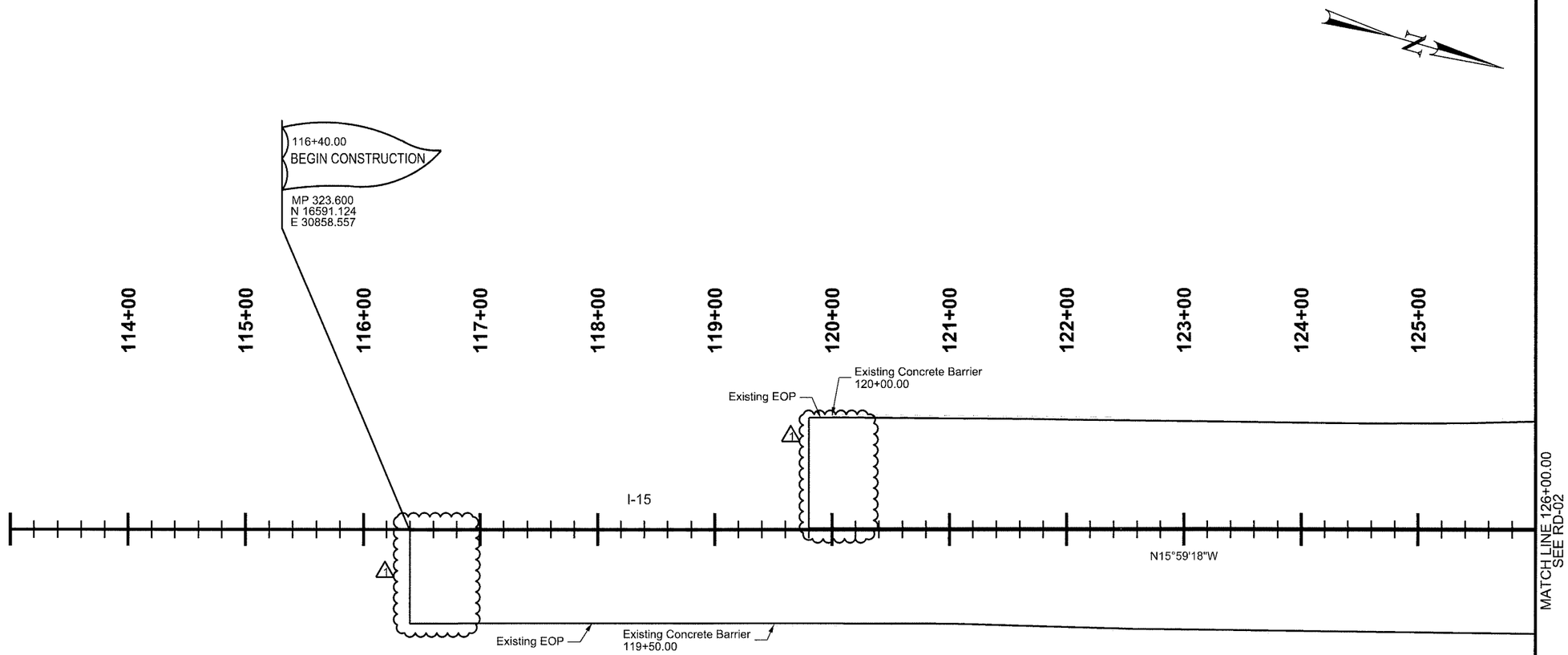


Figure 1 – Timeline of Incentive, Disincentive, and Liquidated Damages

PART 2 PRODUCTS Not Used

PART 3 EXECUTION Not Used

END OF SECTION



REVISIONS				
NO.	DATE	APPROVED BY	REMARKS
6			
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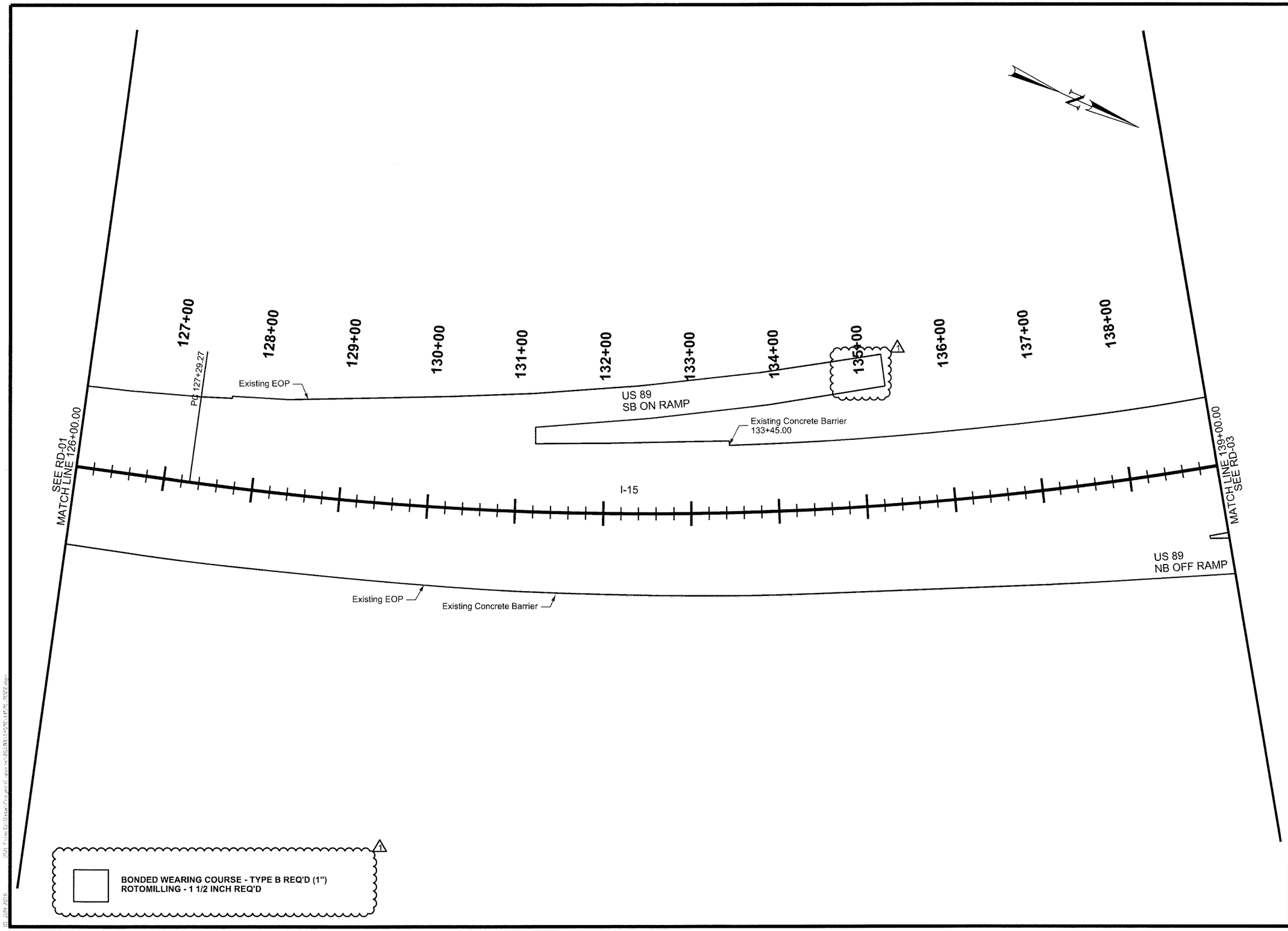
2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
QC CHECKED BY GSS
APPROVED Bradley A. Humphreys
PROFESSIONAL ENGINEER
6/1/2016 DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-01



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UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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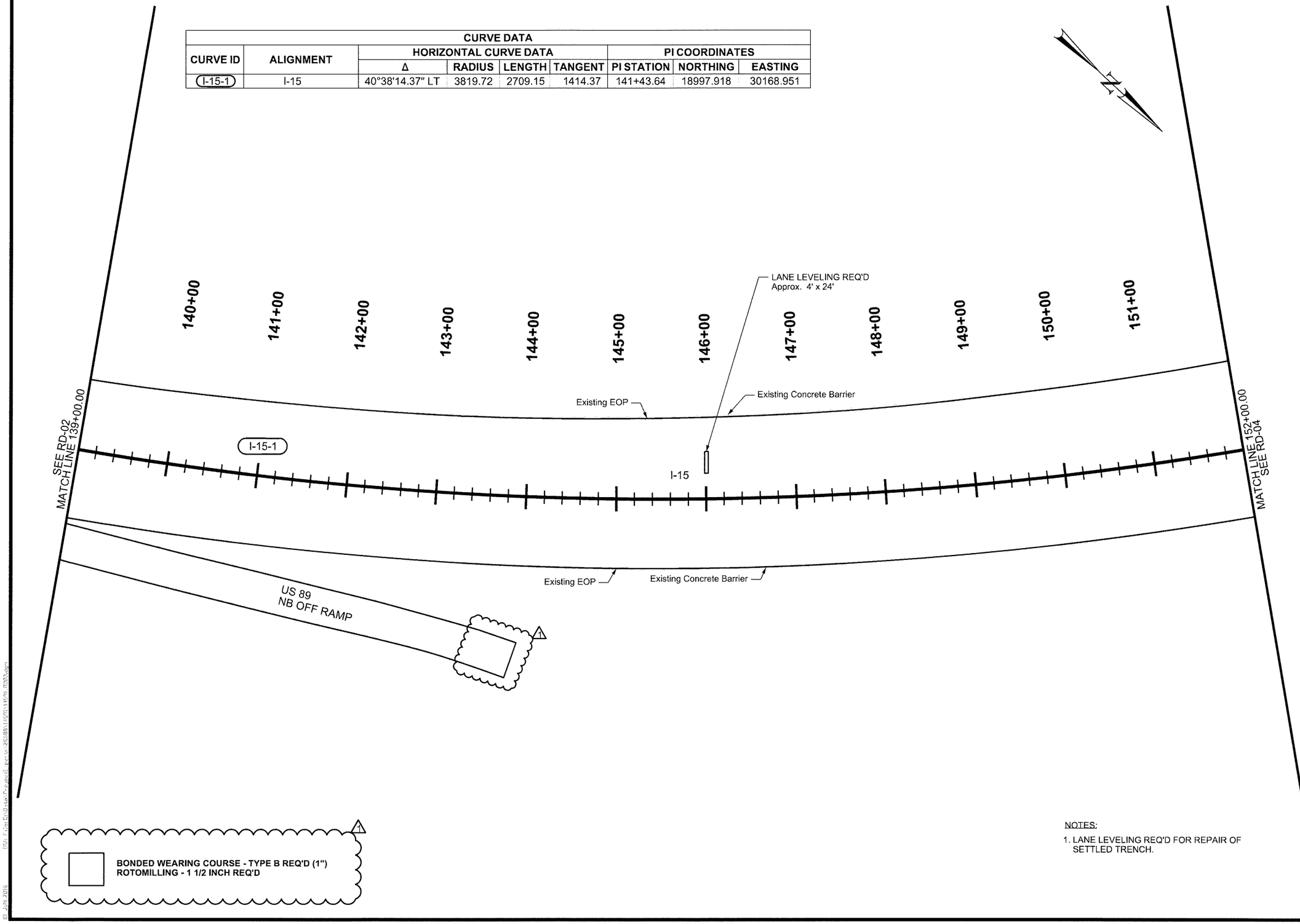
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER
6/1/2016
DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-02

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-1	I-15	40°38'14.37" LT	3819.72	2709.15	1414.37	141+43.64	18997.918	30168.951



NOTES:

1. LANE LEVELING REQ'D FOR REPAIR OF SETTLED TRENCH.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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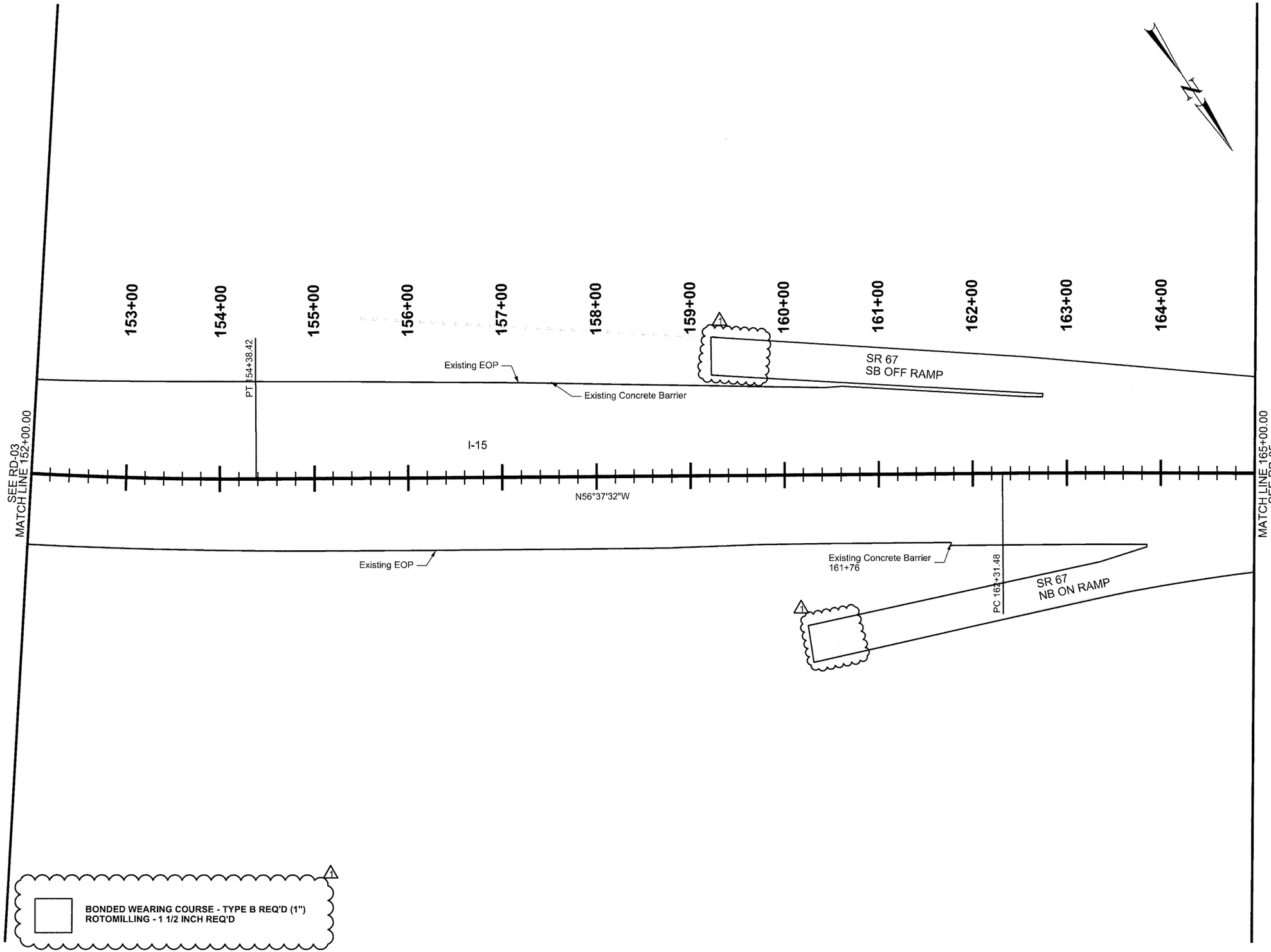
DATE 6/1/2016

APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-03



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NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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PROFESSIONAL ENGINEER

6/1/2016
DATE

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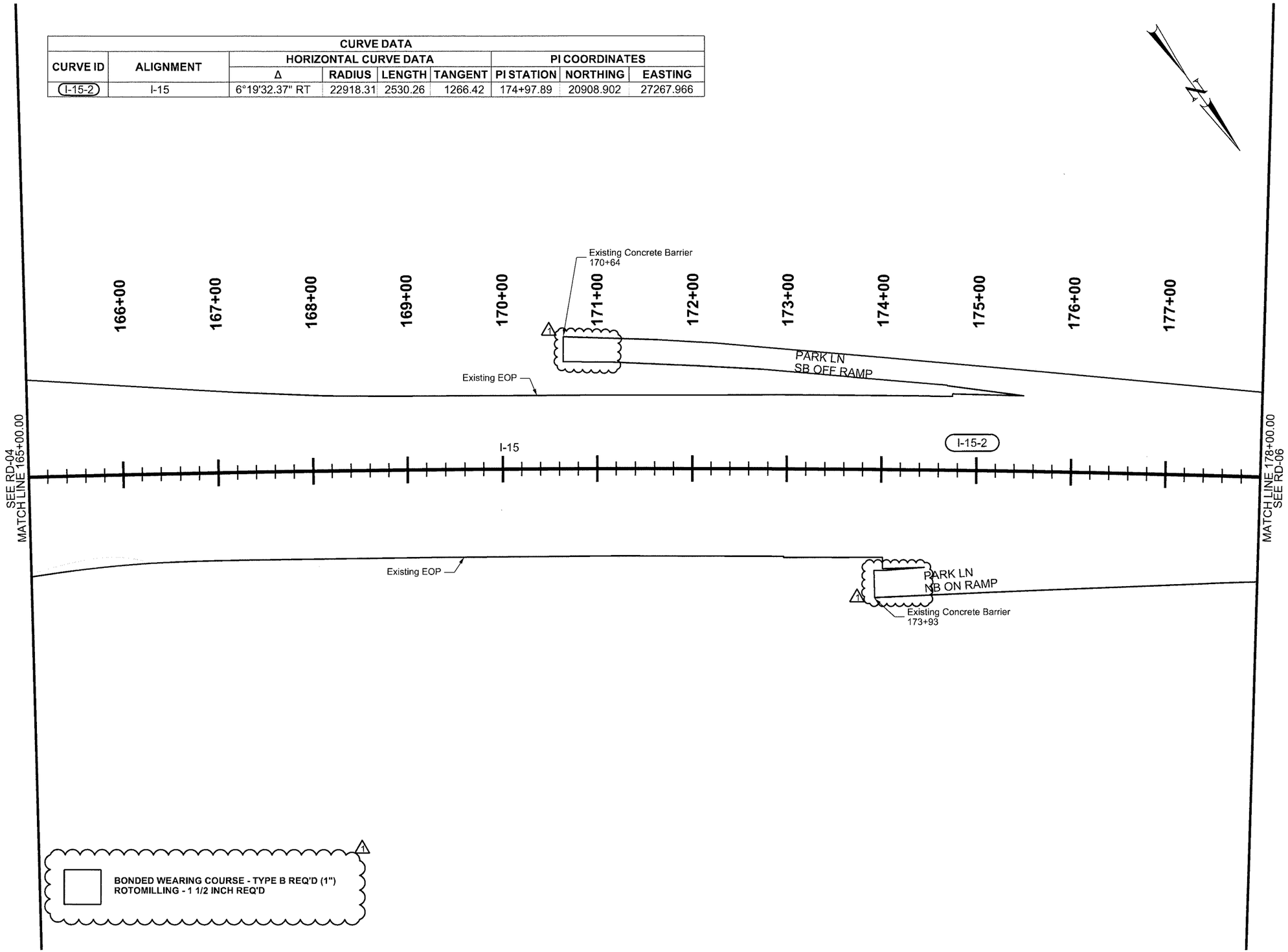
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-04

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-2	I-15	6°19'32.37" RT	22918.31	2530.26	1266.42	174+97.89	20908.902	27267.966



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
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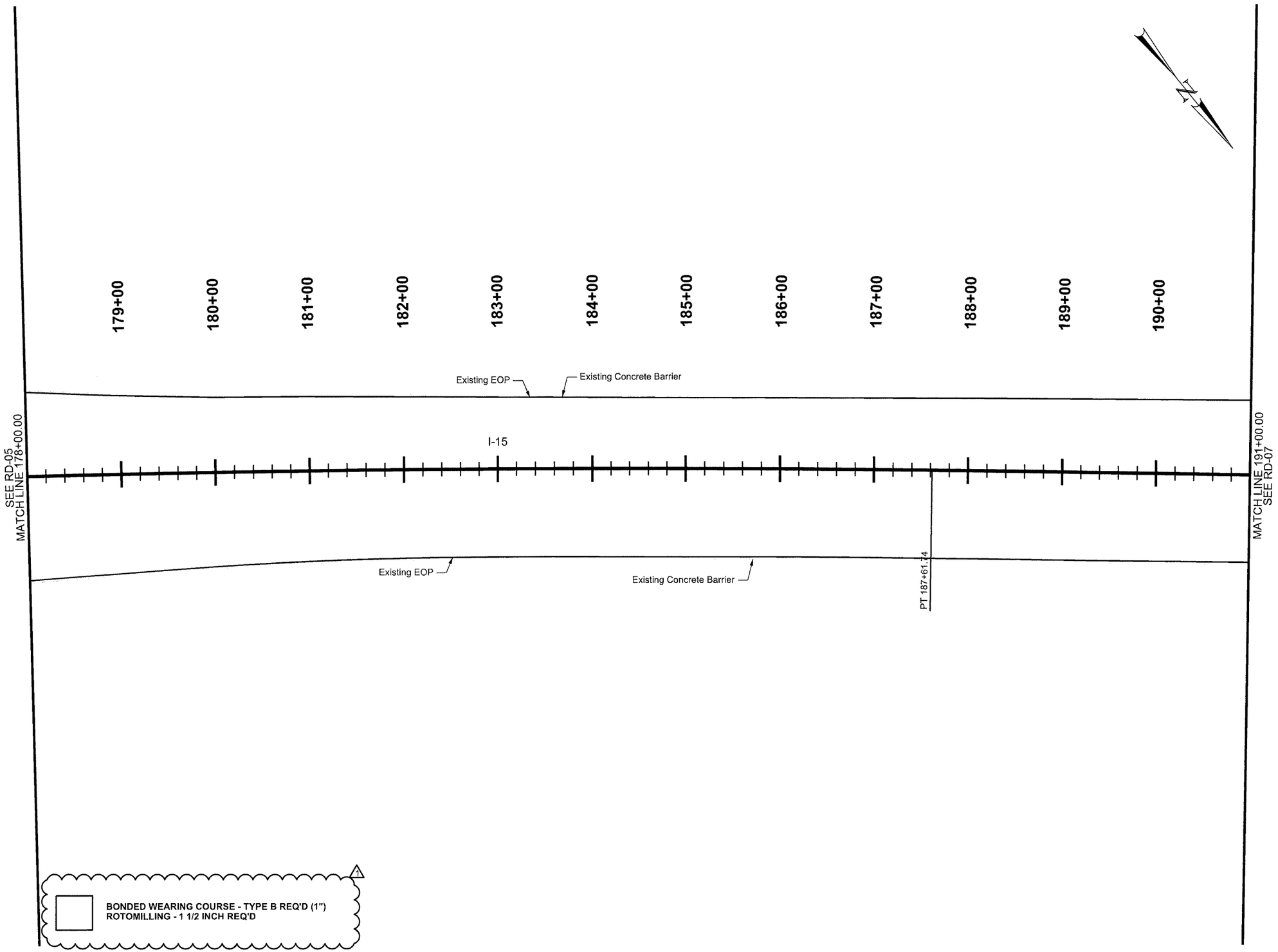
ROADWAY - OVERLAY

SHEET NO. RD-05



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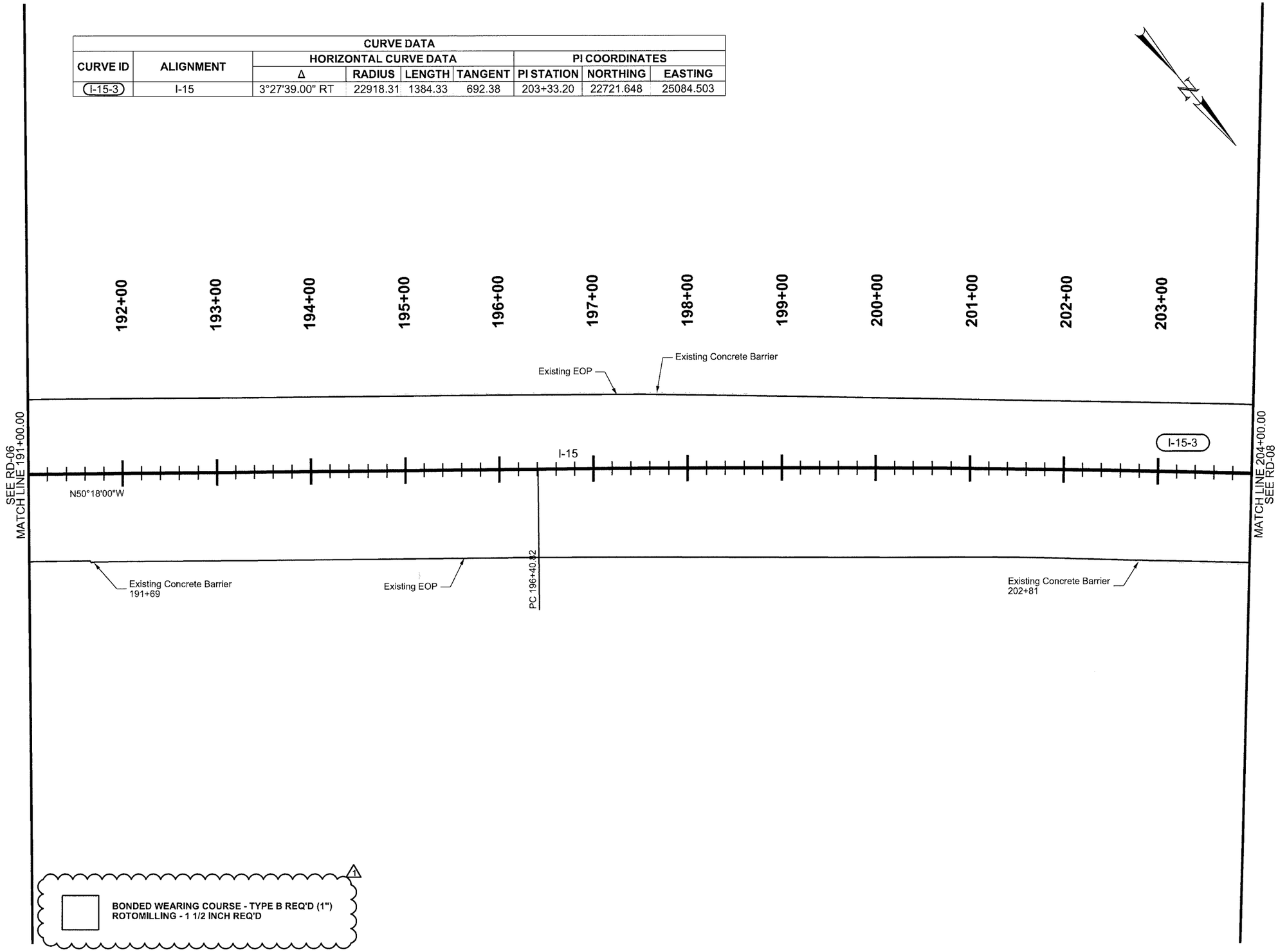
ROADWAY - OVERLAY

SHEET NO. RD-06

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-3	I-15	3°27'39.00" RT	22918.31	1384.33	692.38	203+33.20	22721.648	25084.503



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REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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APPROVED Bradley A. Humphrey
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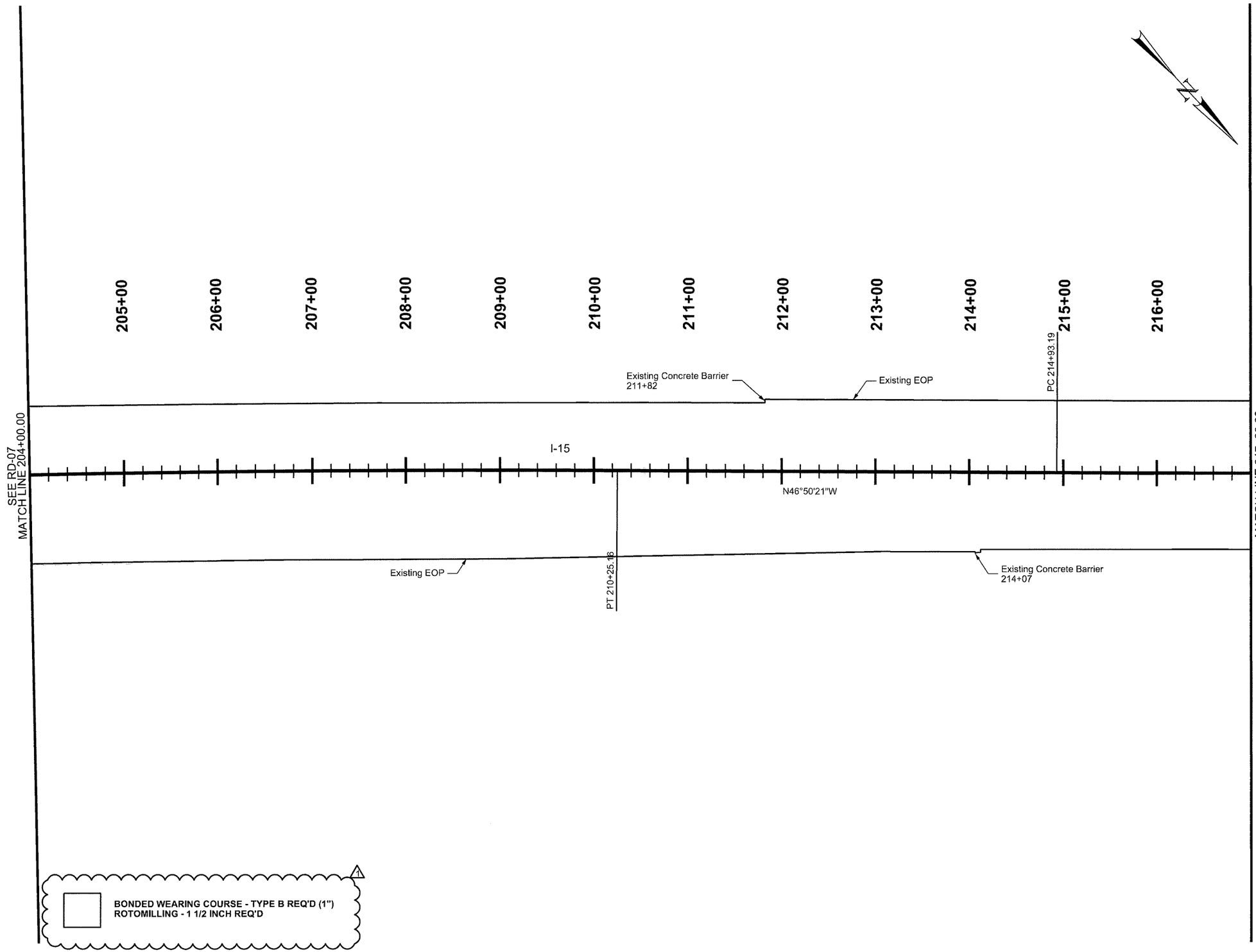
PROJECT I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-07



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UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
QC CHECKED BY GSS
6/1/2016
DATE

APPROVED
Brandon A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-08

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
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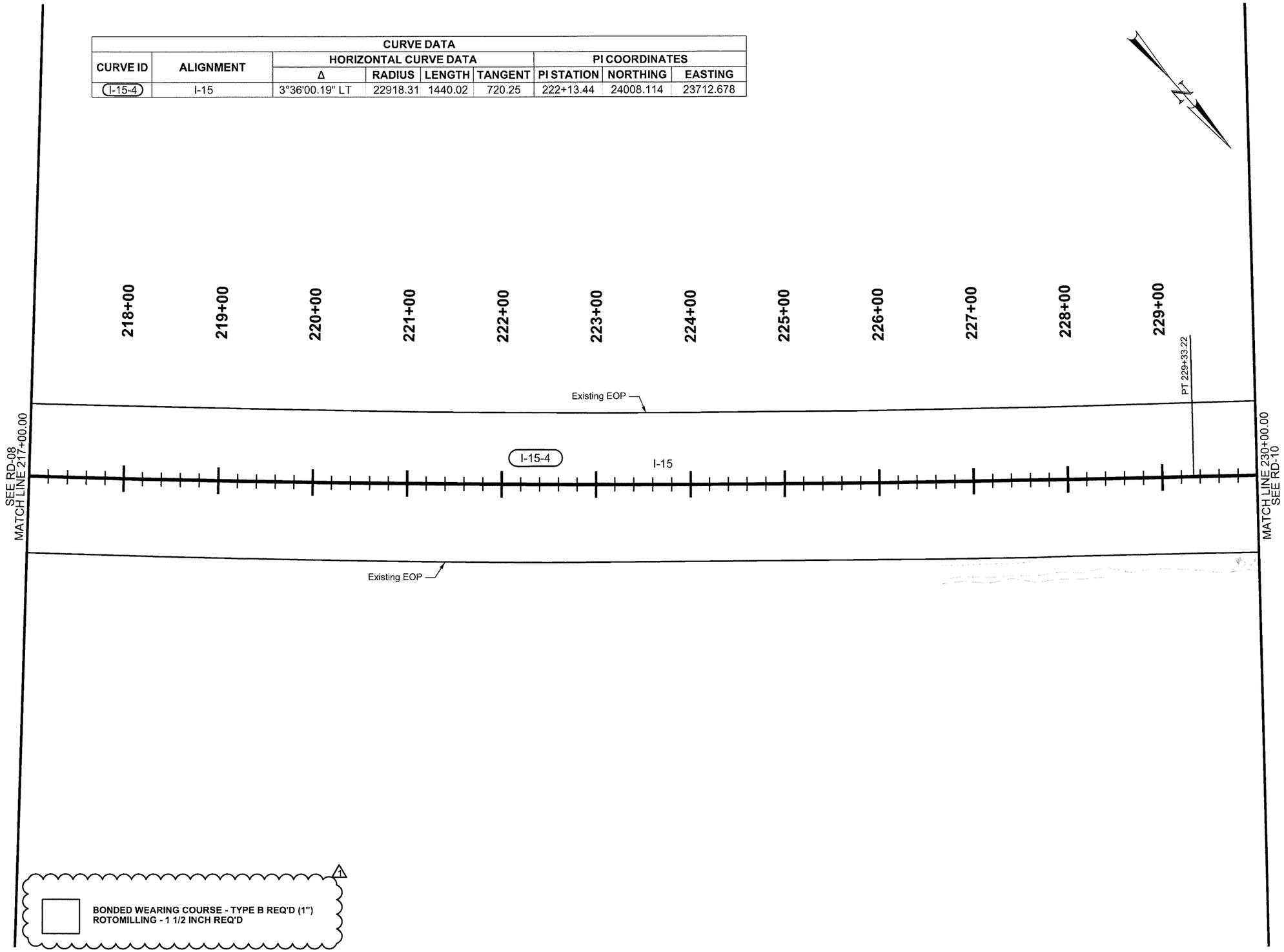

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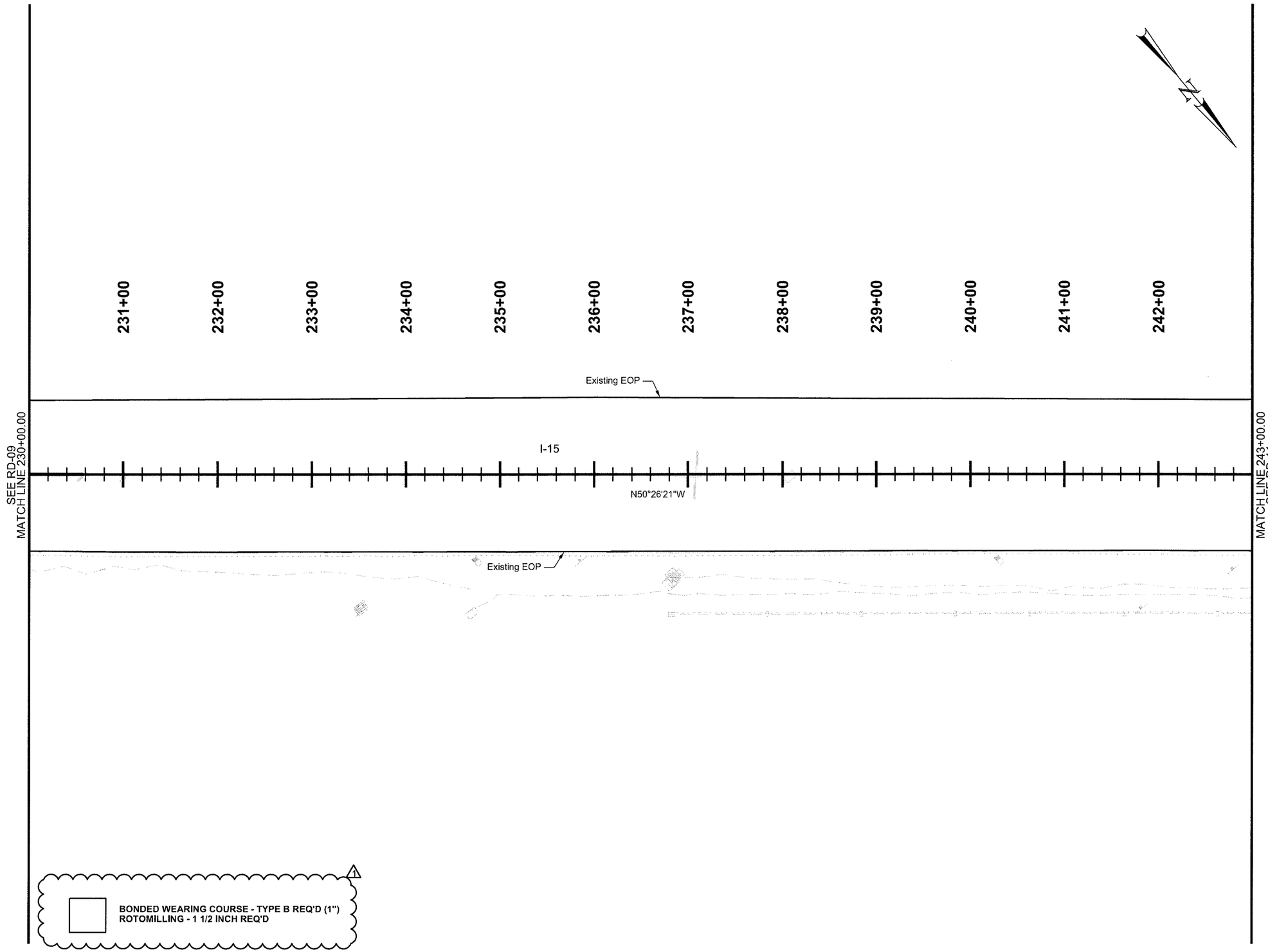
PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-09



REVISIONS

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UTAH DEPARTMENT OF TRANSPORTATION

REGION DESIGN

DRAWN BY JDR

CHECKED BY GSS

APPROVED Bradley A. Humphrey

PROFESSIONAL ENGINEER

6/1/2016

DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35

PROJECT NUMBER: F-I15-7(333)324 PIN 14591

ROADWAY - OVERLAY

SHEET NO. RD-10

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
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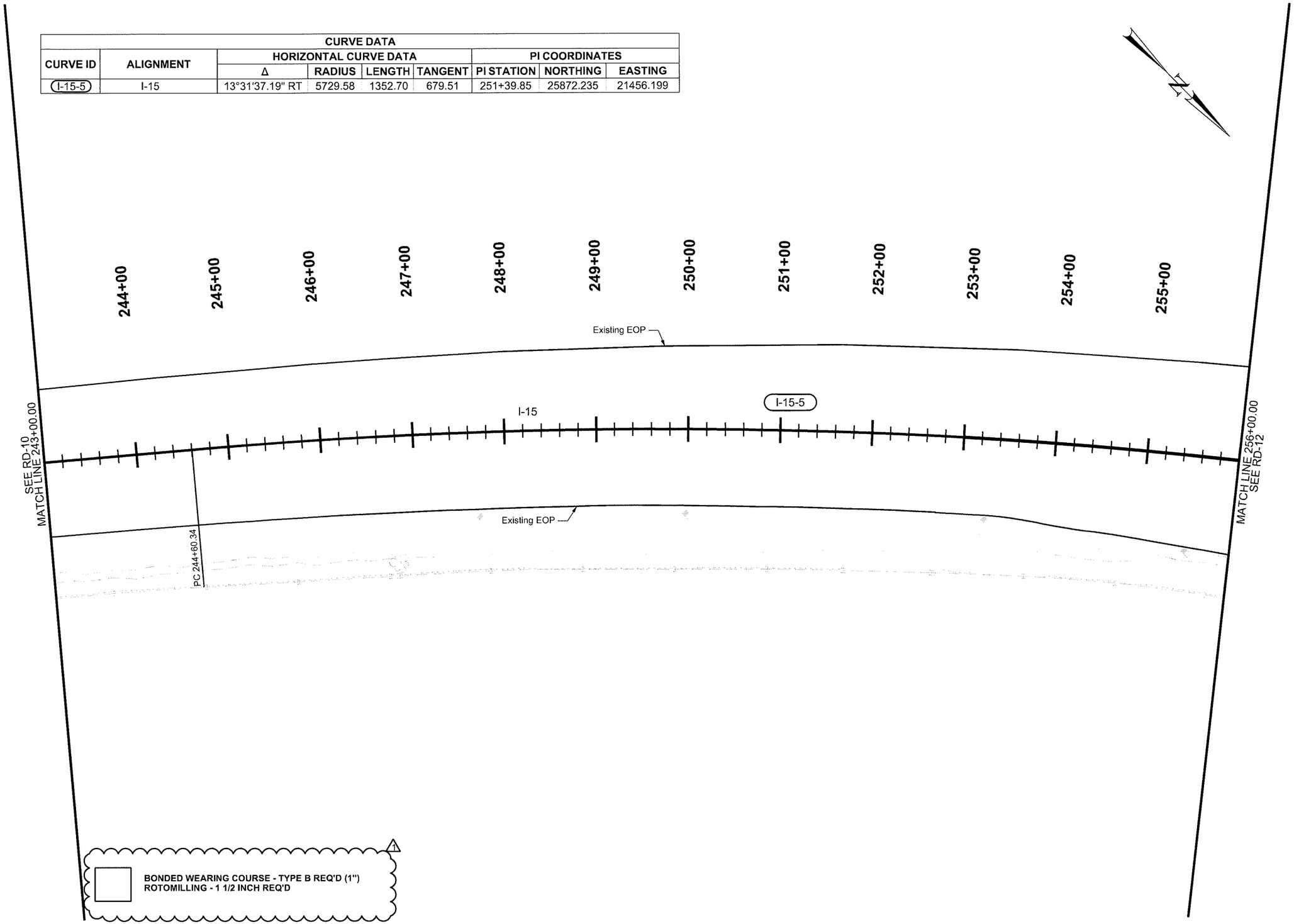

REVISIONS

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5			
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3			
2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION

REGION DESIGN

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APPROVED Bradley A. Humphrey

PROFESSIONAL ENGINEER

6/1/2016 DATE

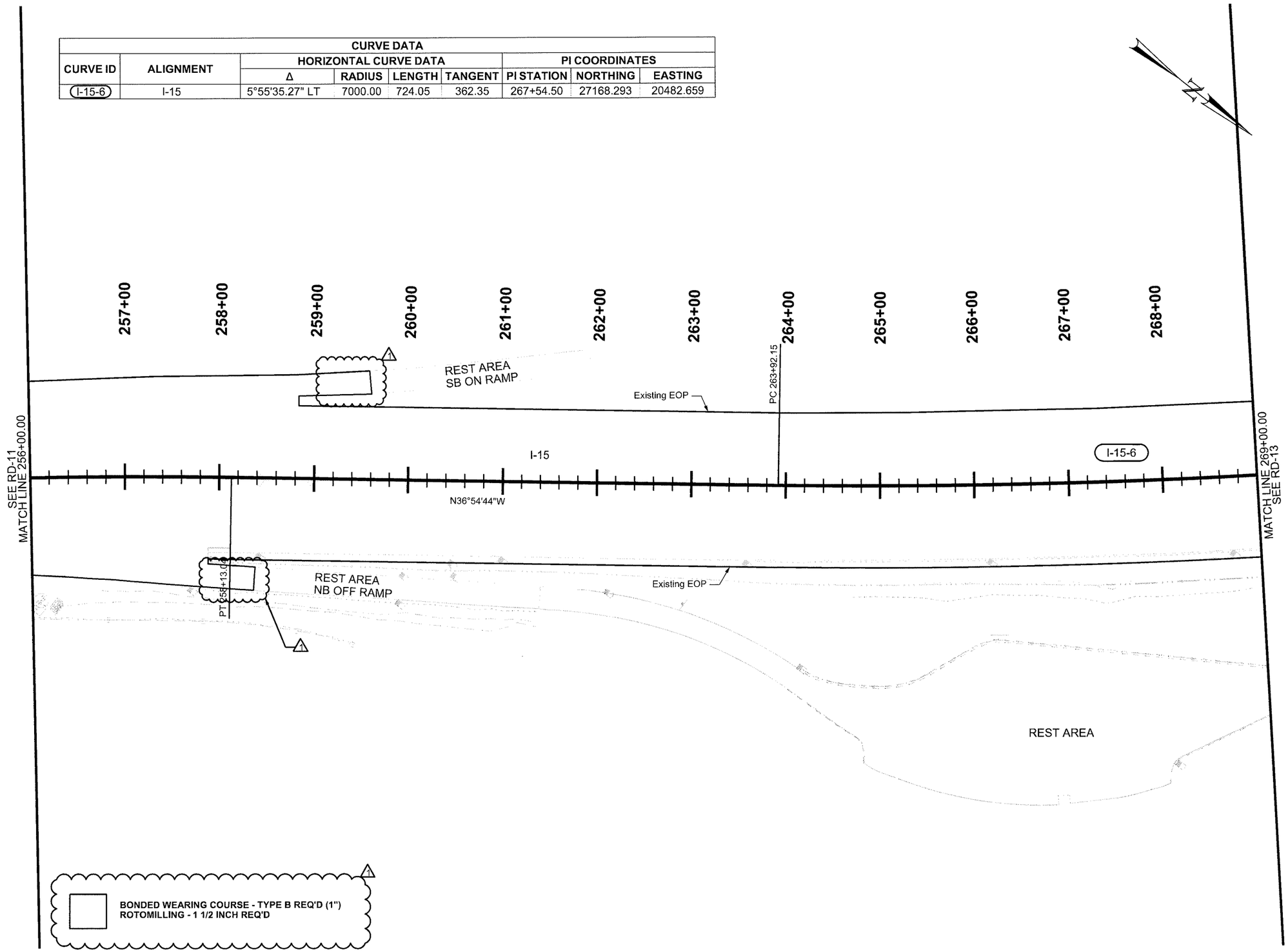
PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35

PROJECT NUMBER: F-I15-7(333)324 PIN 14591

ROADWAY - OVERLAY

SHEET NO. RD-11

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-6	I-15	5°55'35.27" LT	7000.00	724.05	362.35	267+54.50	27168.293	20482.659



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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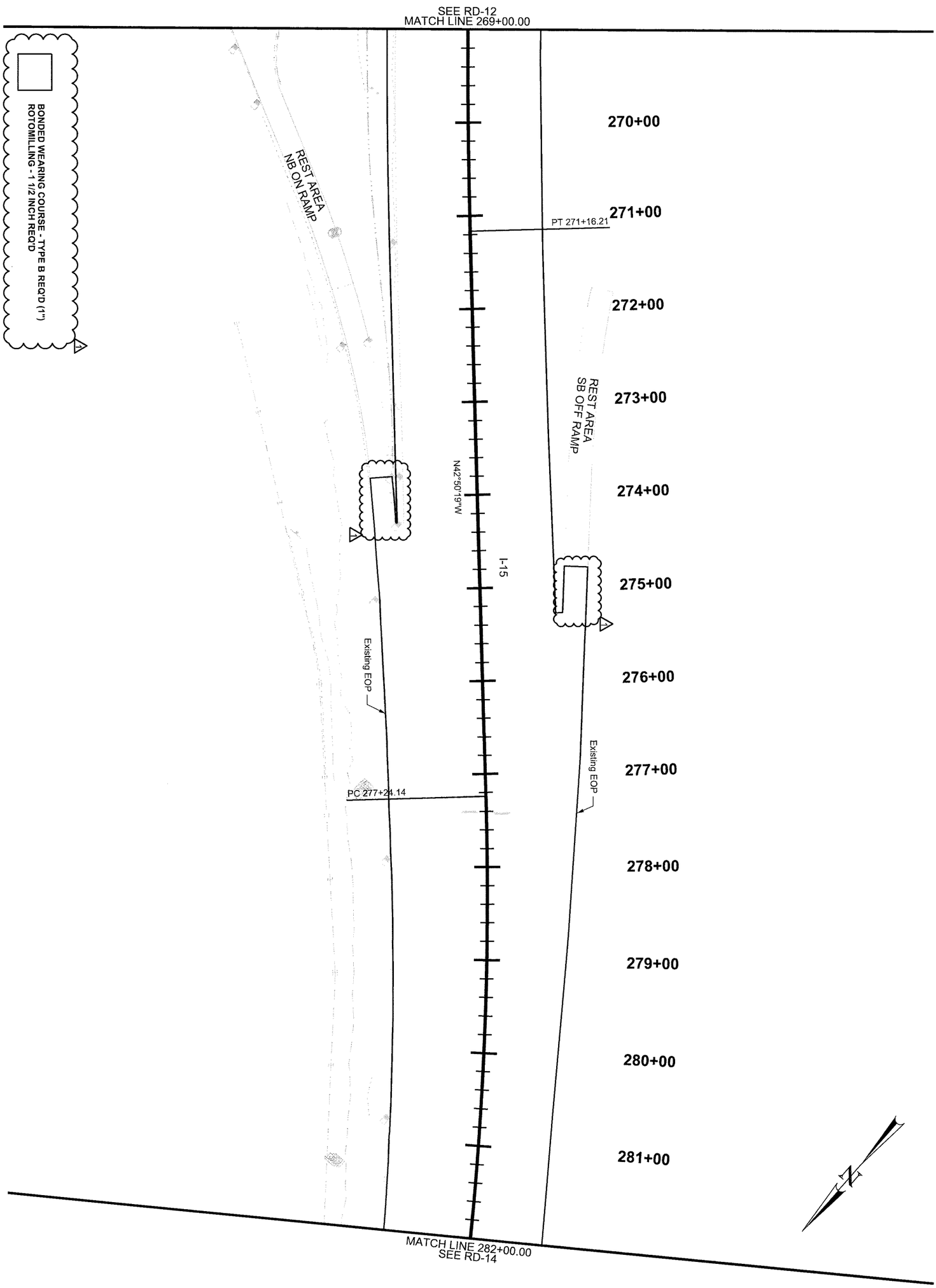
3			
2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Brandon A. Humphreys
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-12



SHEET NO. RD-13	PROJECT	I-15; BONDED OVERLAY, MP 323.6 TO 331.35	
	PROJECT NUMBER	F-I15-7(333)324	PIN 14591
	ROADWAY - OVERLAY		

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

APPROVED Bradley A. Humphreys
PROFESSIONAL ENGINEER — DATE 6/1/2016

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REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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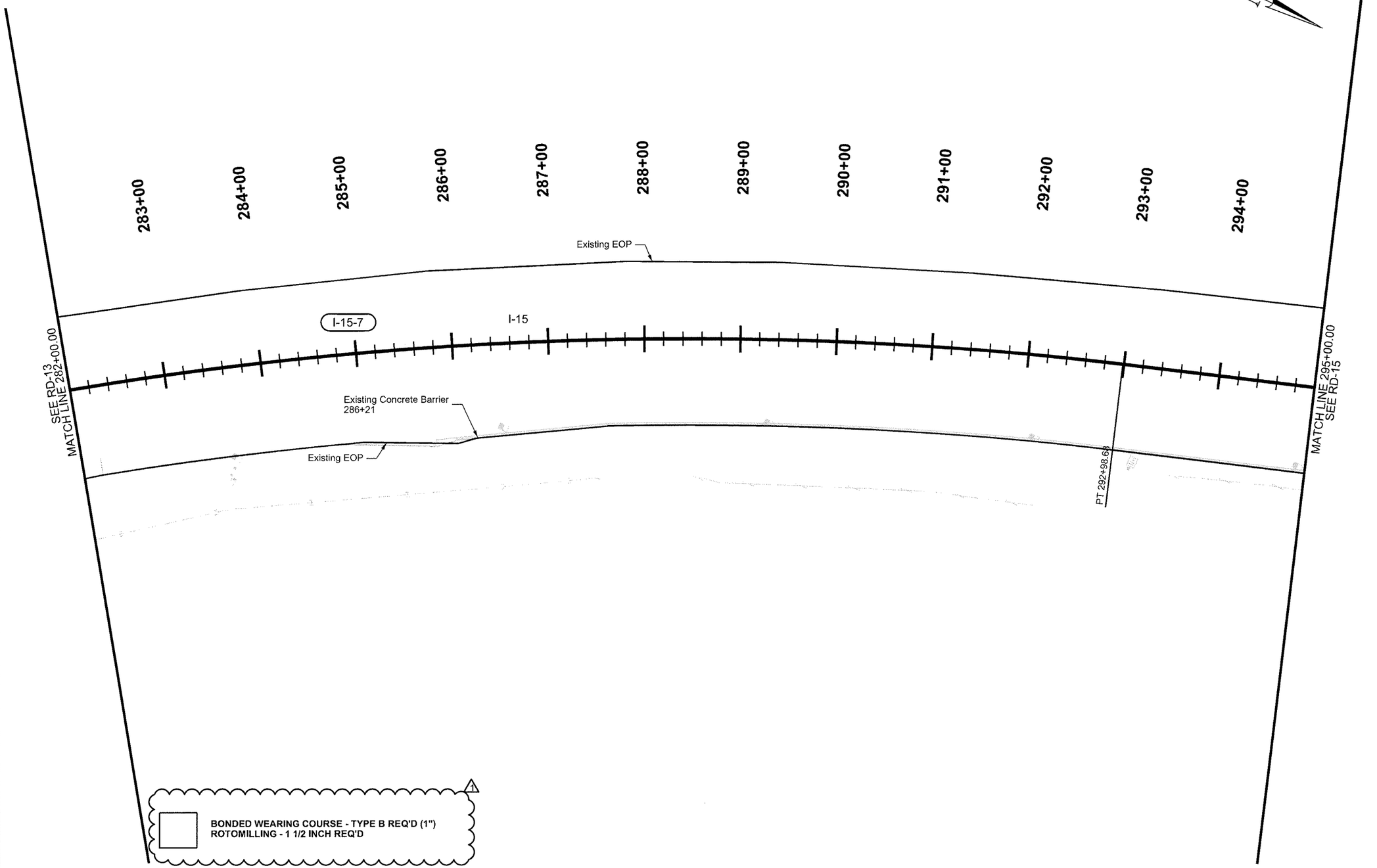
1	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-7	I-15	23°37'05.18" RT	3819.72	1574.54	798.61	285+22.75	28465.369	19279.926



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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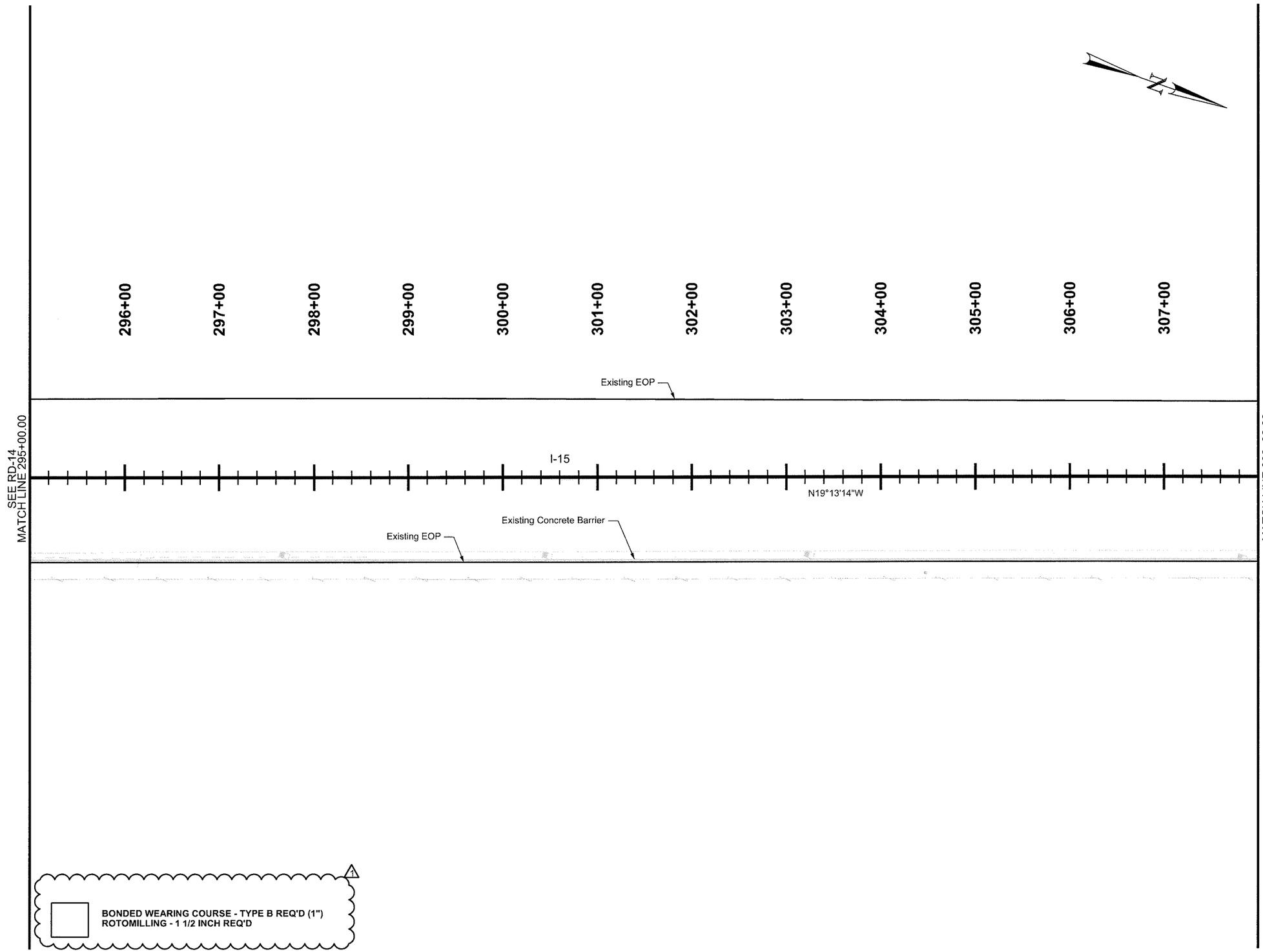
2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphries
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-14



REVISIONS				
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS	
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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APPROVED Brandon A. Humphreys
PROFESSIONAL ENGINEER

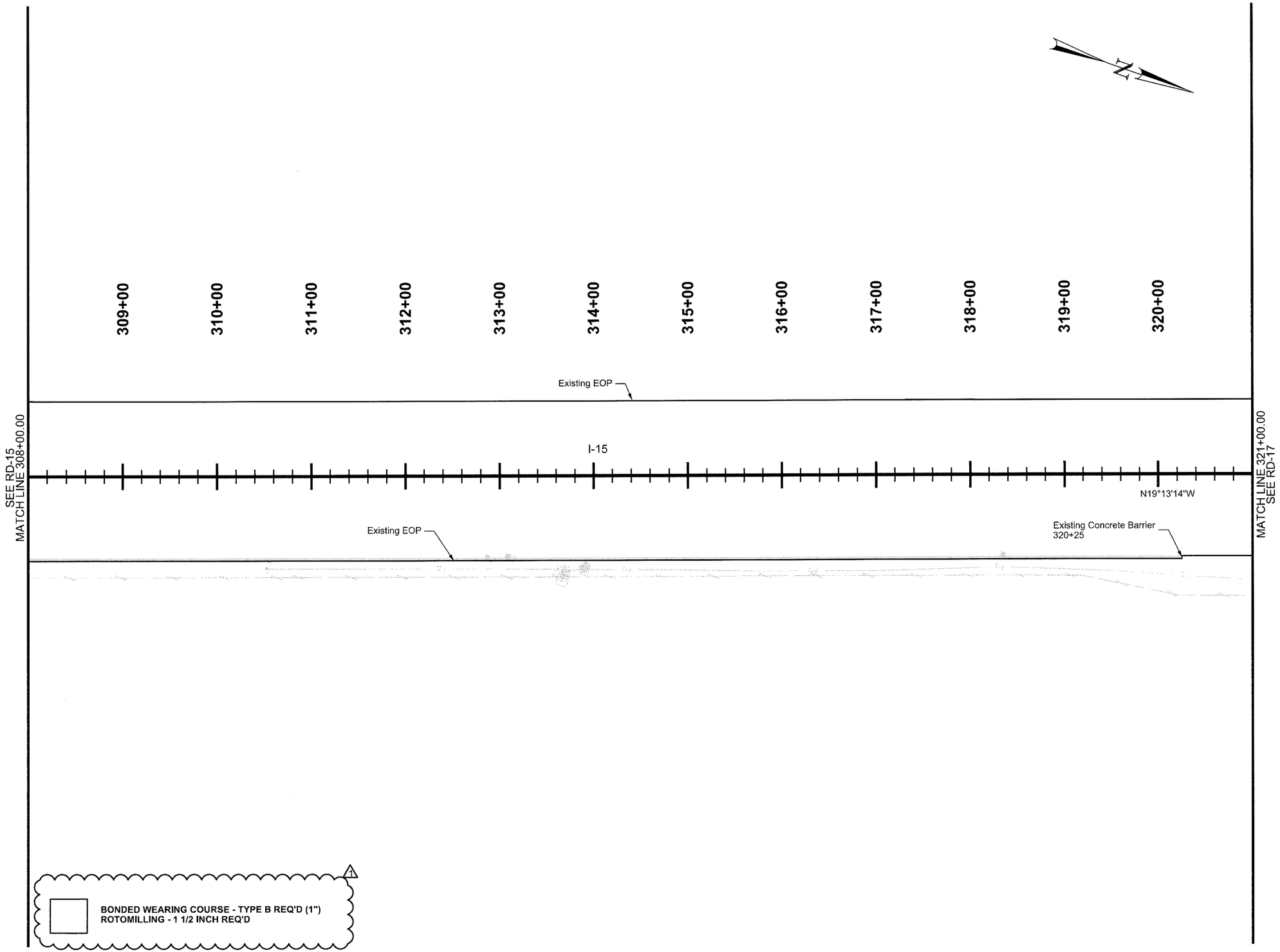
6/1/2016
DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35

PROJECT NUMBER: F-I15-7(333)324 PIN 14591

ROADWAY - OVERLAY

SHEET NO. RD-15



REVISIONS				
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS	
NO.	DATE	APPROVED BY	REMARKS	

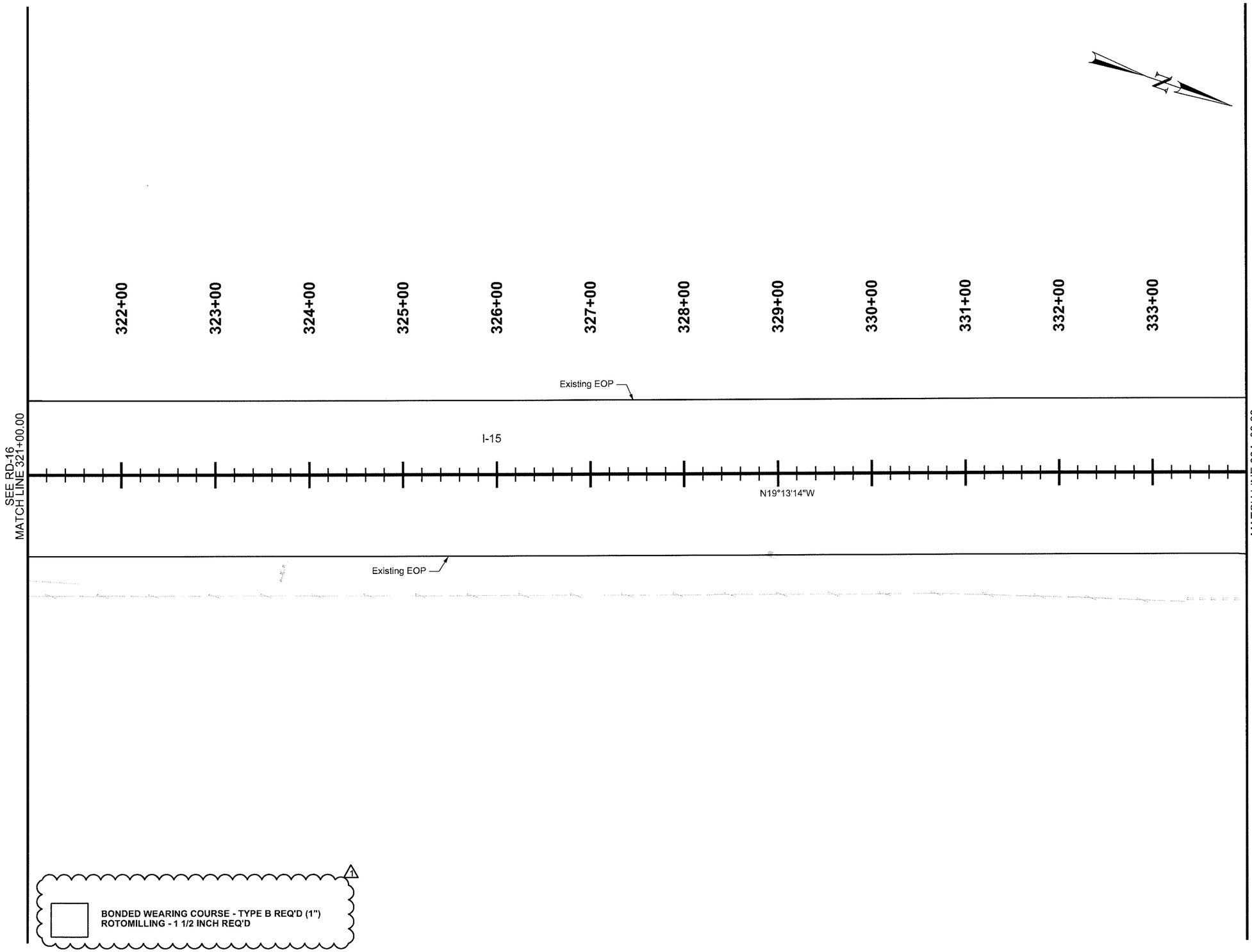
UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
QC CHECKED BY GSS

APPROVED Bradley A. Humphreys 6/1/2016
PROFESSIONAL ENGINEER DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-16



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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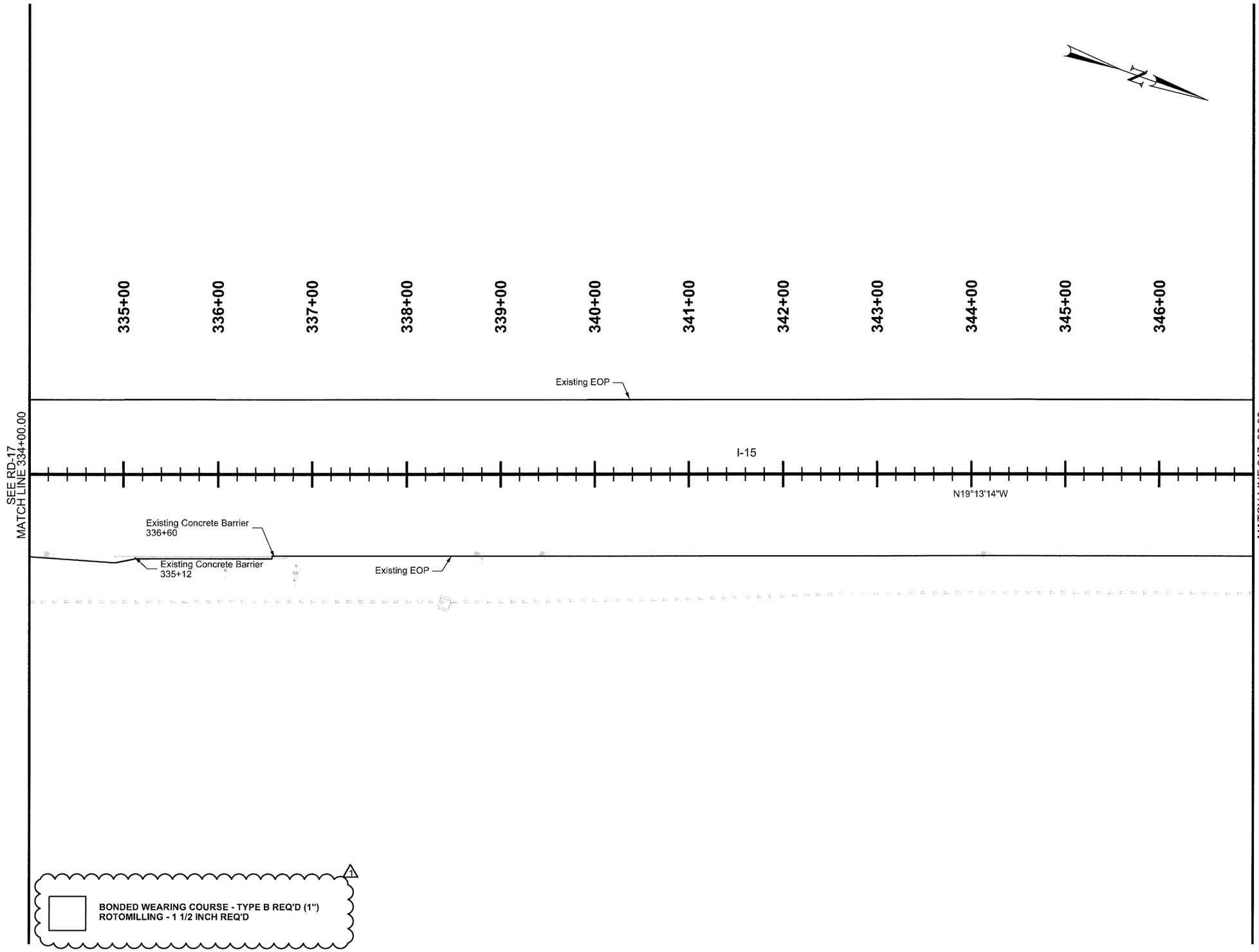
CHECKED BY GSS
QC
DATE 6/1/2016

APPROVED
Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-17



REVISIONS			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS
NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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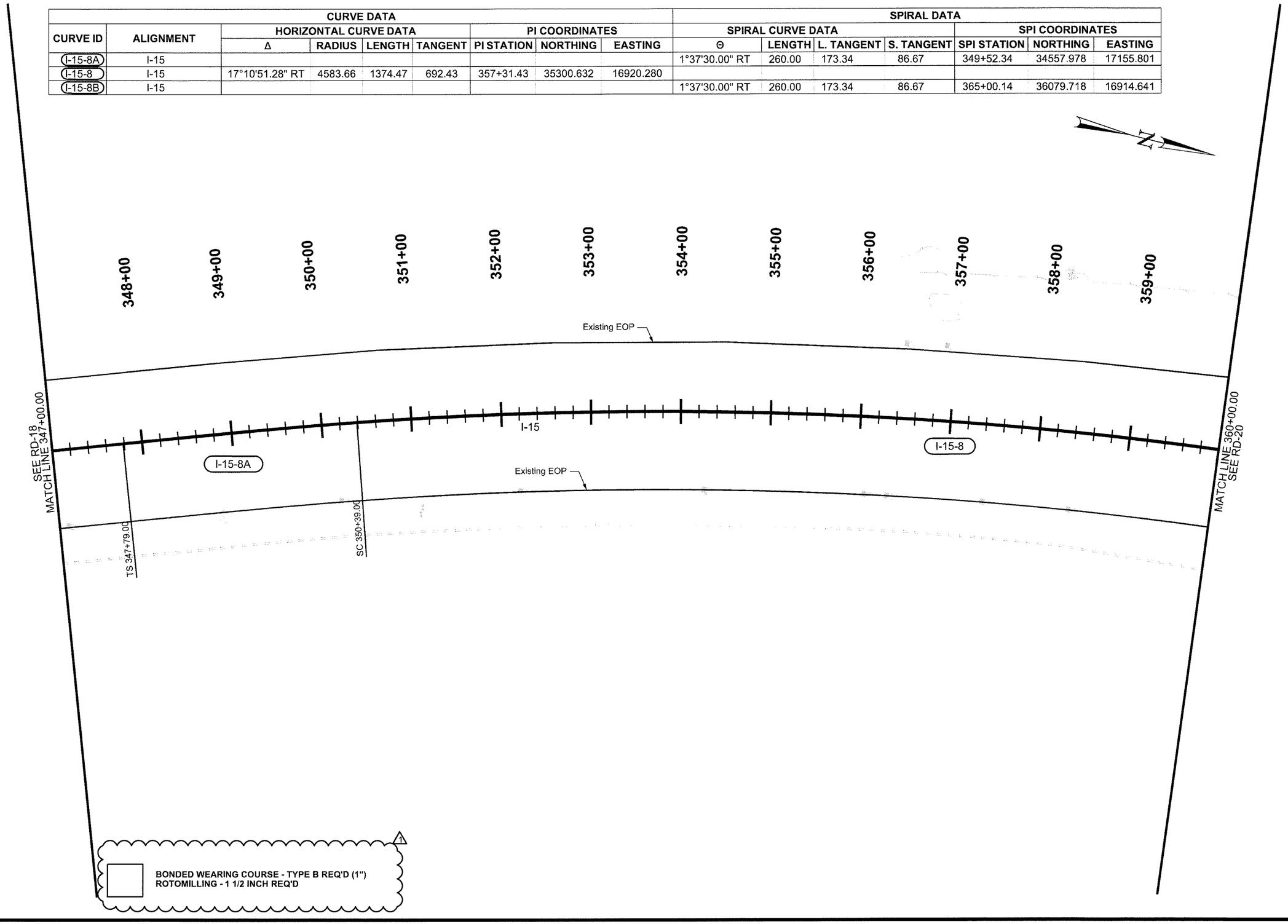
QC CHECKED BY GSS

APPROVED
Bradley A. Humphrey
PROFESSIONAL ENGINEER
6/1/2016
DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-18

CURVE DATA									SPIRAL DATA						
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES			SPIRAL CURVE DATA				SPI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING	Θ	LENGTH	L. TANGENT	S. TANGENT	SPI STATION	NORTHING	EASTING
I-15-8A	I-15								1°37'30.00" RT	260.00	173.34	86.67	349+52.34	34557.978	17155.801
I-15-8	I-15	17°10'51.28" RT	4583.66	1374.47	692.43	357+31.43	35300.632	16920.280							
I-15-8B	I-15								1°37'30.00" RT	260.00	173.34	86.67	365+00.14	36079.718	16914.641



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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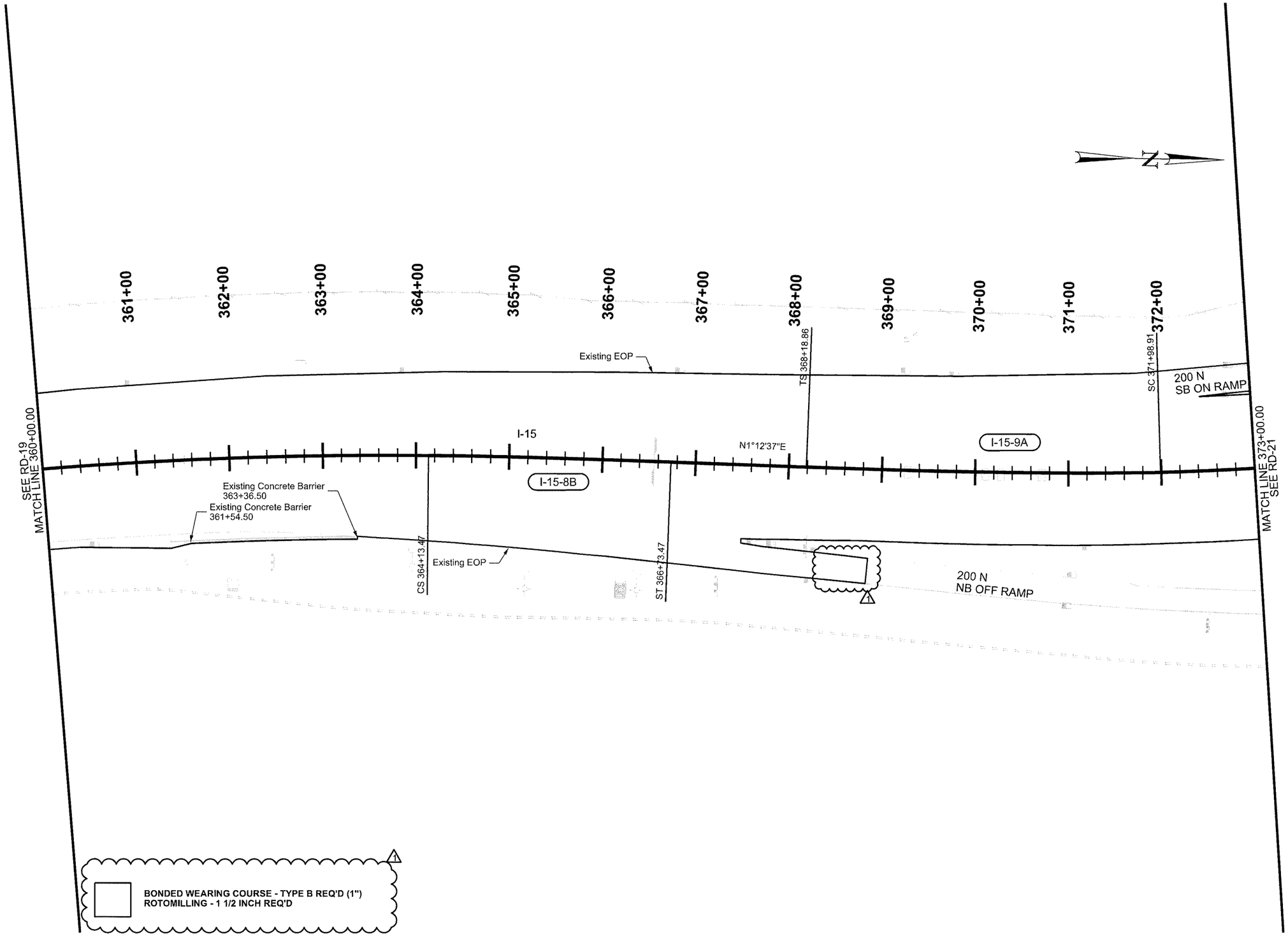
2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-19



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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APPROVED
Brandon A. Humphreys
PROFESSIONAL ENGINEER

6/1/2016
DATE

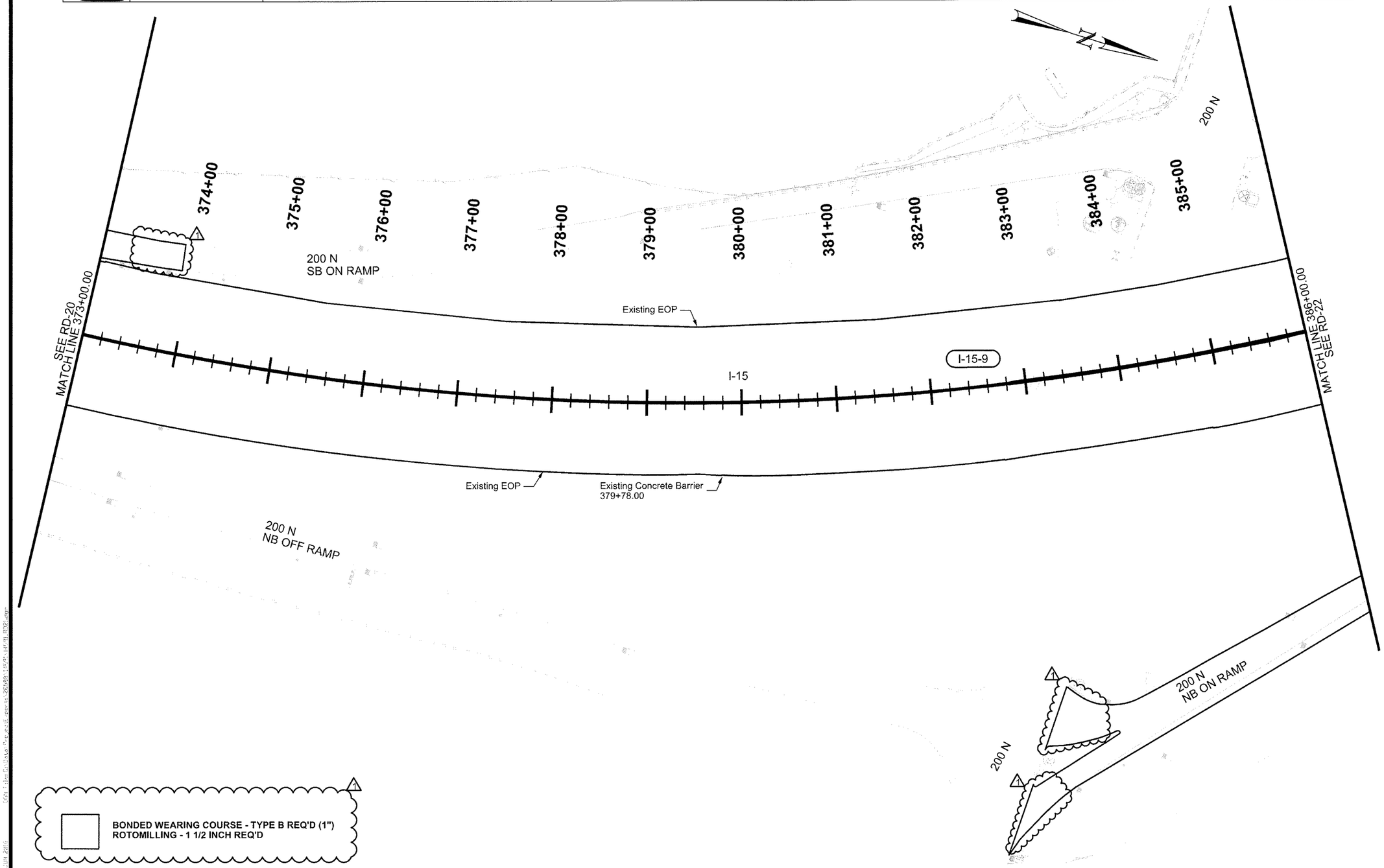
PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35

PROJECT NUMBER: F-I15-7(333)324 PIN 14591

ROADWAY - OVERLAY

SHEET NO. RD-20

CURVE DATA									SPIRAL DATA						
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES			SPIRAL CURVE DATA				SPI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING	Θ	LENGTH	L. TANGENT	S. TANGENT	SPI STATION	NORTHING	EASTING
I-15-9A	I-15								3°48'01.78" LT	380.05	253.42	126.74	370+72.28	36651.746	16926.727
I-15-9	I-15	40°58'33.03" LT	2864.79	2048.79	1070.41	382+69.32	37847.671	16872.626							
I-15-9B	I-15								5°01'50.88" LT	503.08	335.52	167.82	394+15.52	38744.868	16019.251



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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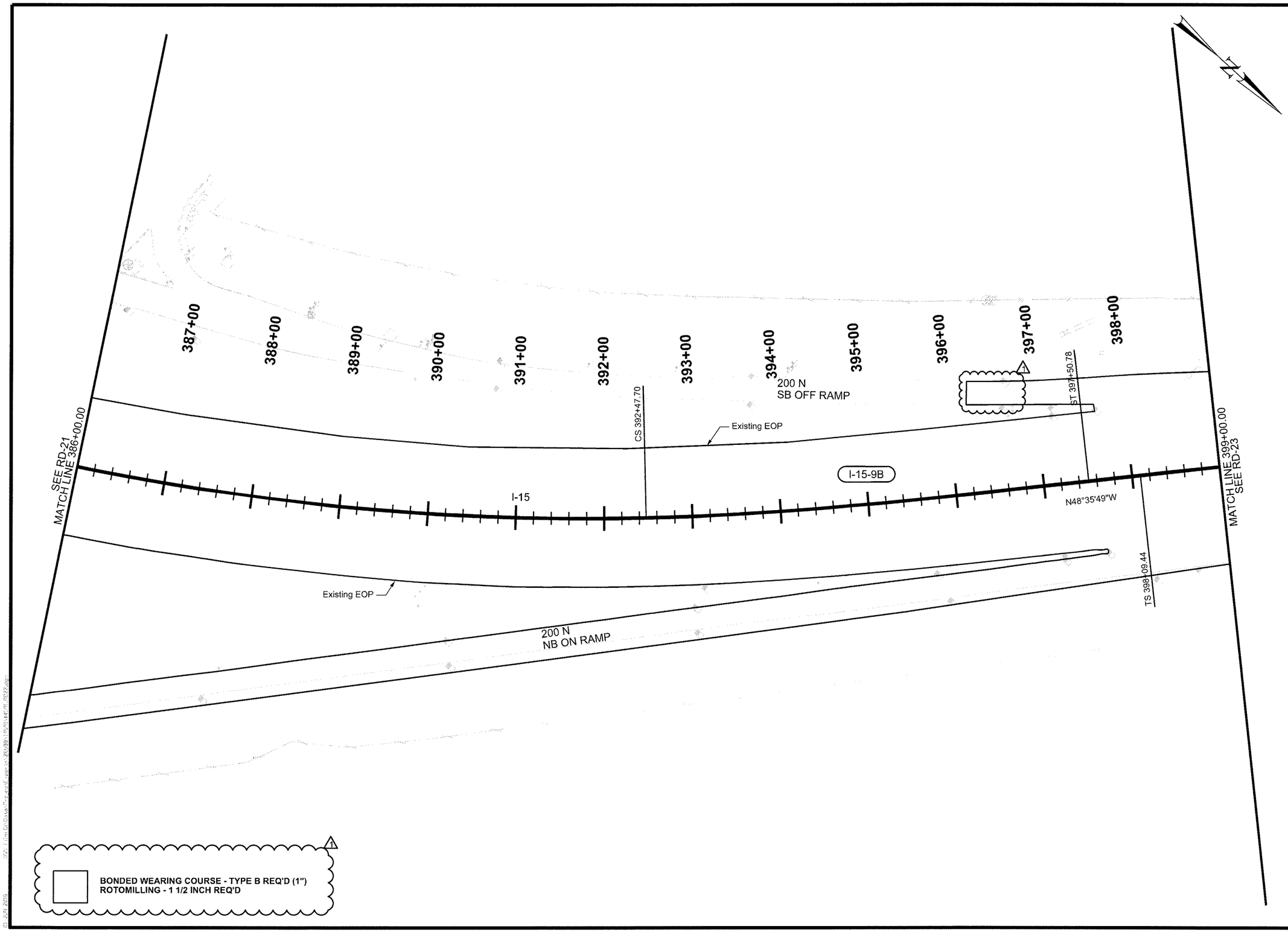
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-21



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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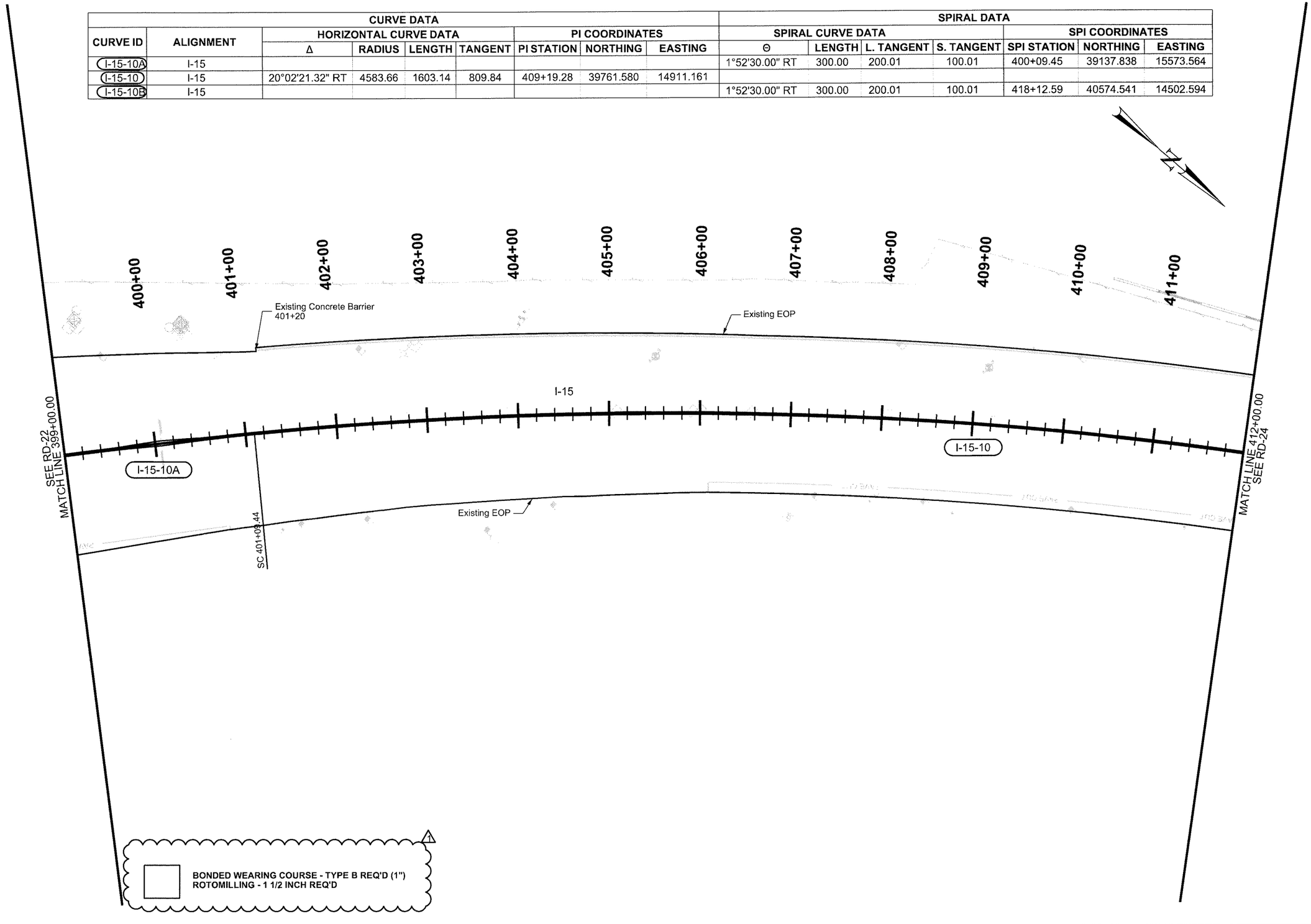
CHECKED BY GSS
QC
DATE 6/1/2016

APPROVED
Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-22

CURVE DATA									SPIRAL DATA						
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES			SPIRAL CURVE DATA				SPI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING	Θ	LENGTH	L. TANGENT	S. TANGENT	SPI STATION	NORTHING	EASTING
I-15-10A	I-15								1°52'30.00" RT	300.00	200.01	100.01	400+09.45	39137.838	15573.564
I-15-10	I-15	20°02'21.32" RT	4583.66	1603.14	809.84	409+19.28	39761.580	14911.161							
I-15-10B	I-15								1°52'30.00" RT	300.00	200.01	100.01	418+12.59	40574.541	14502.594



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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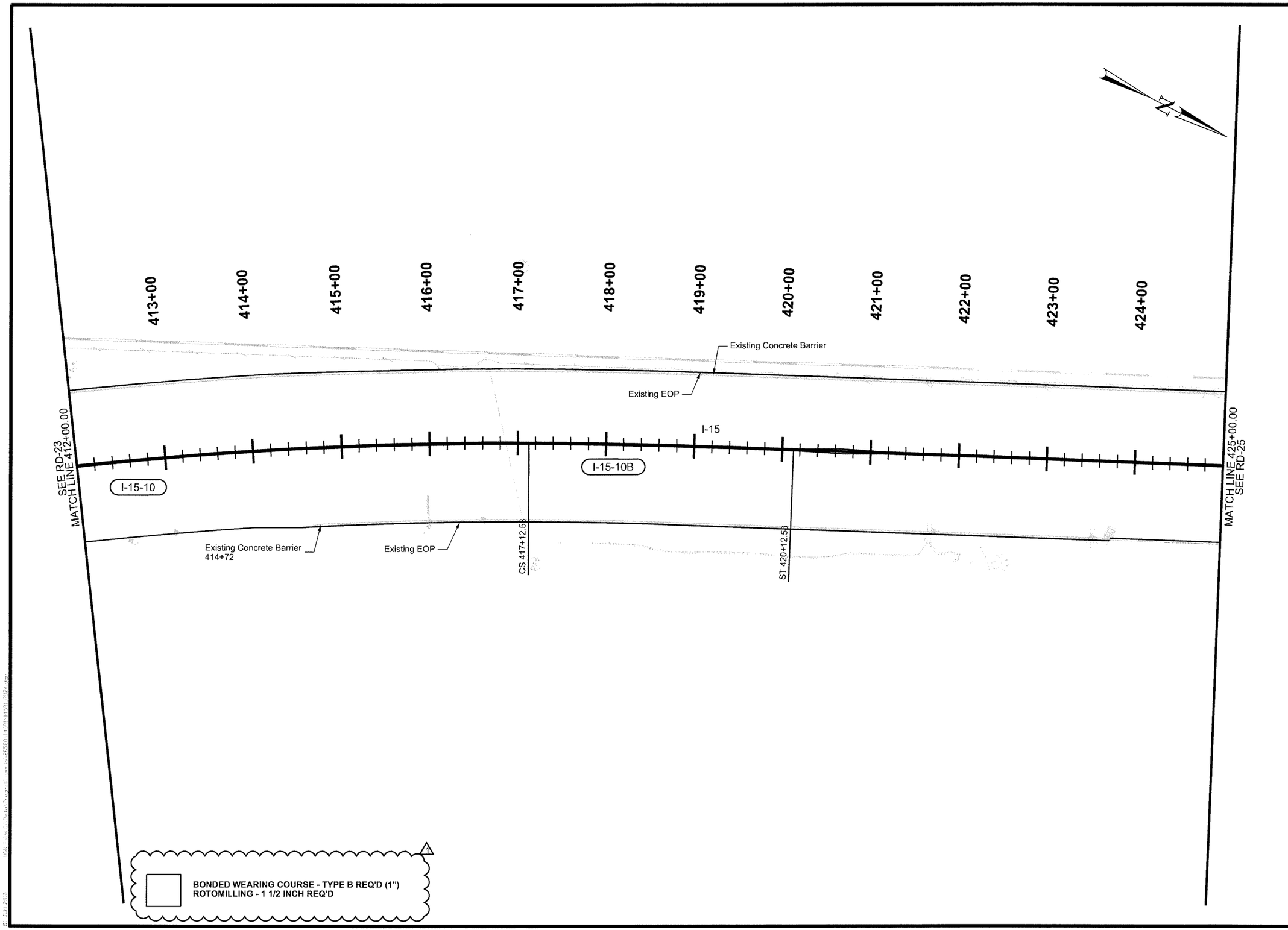
DATE 6/1/2016
APPROVED Brandon A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-23



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS
1			

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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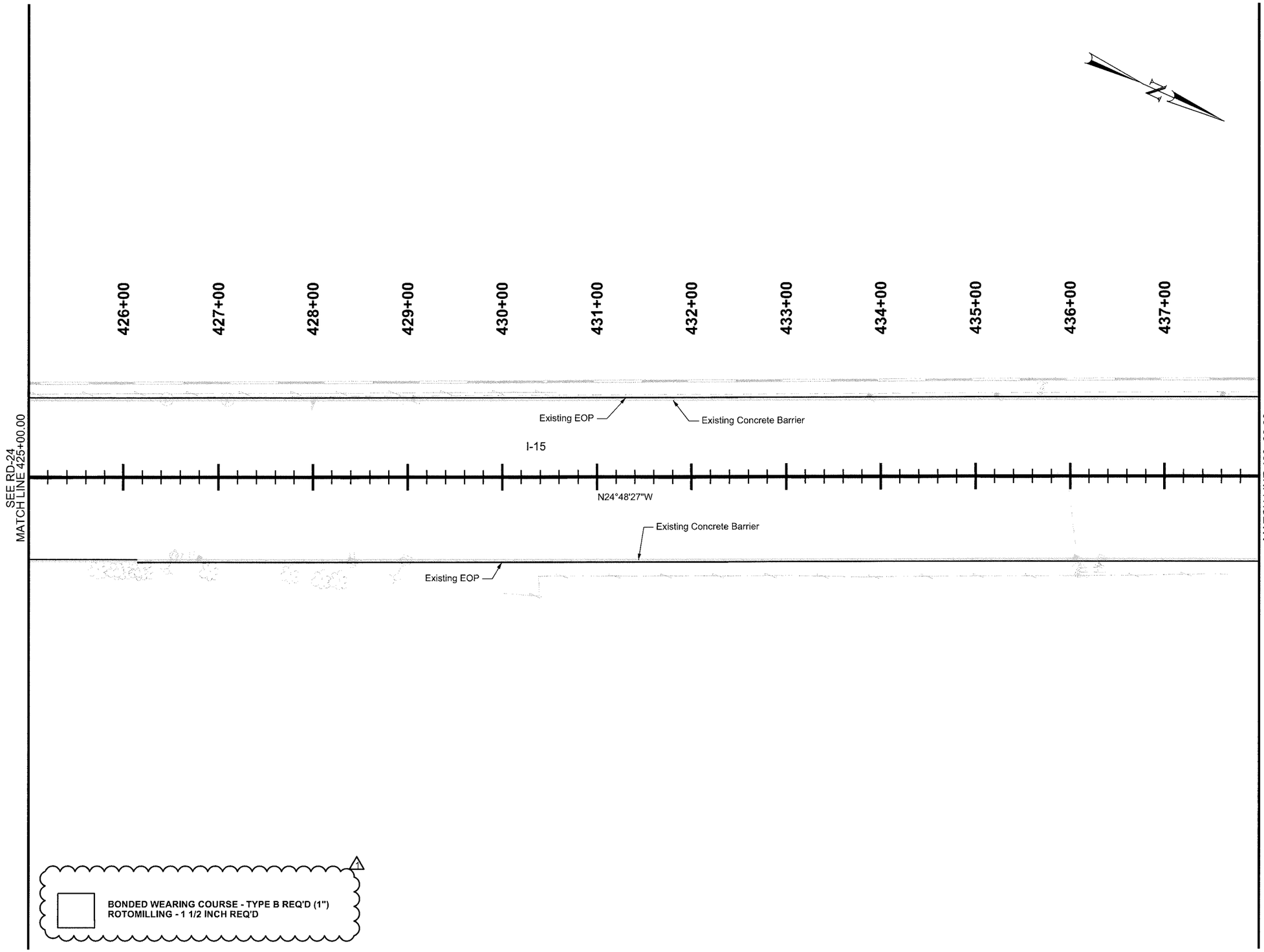
DATE 6/1/2016
APPROVED Bradley A. Humphries
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-24



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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3			
2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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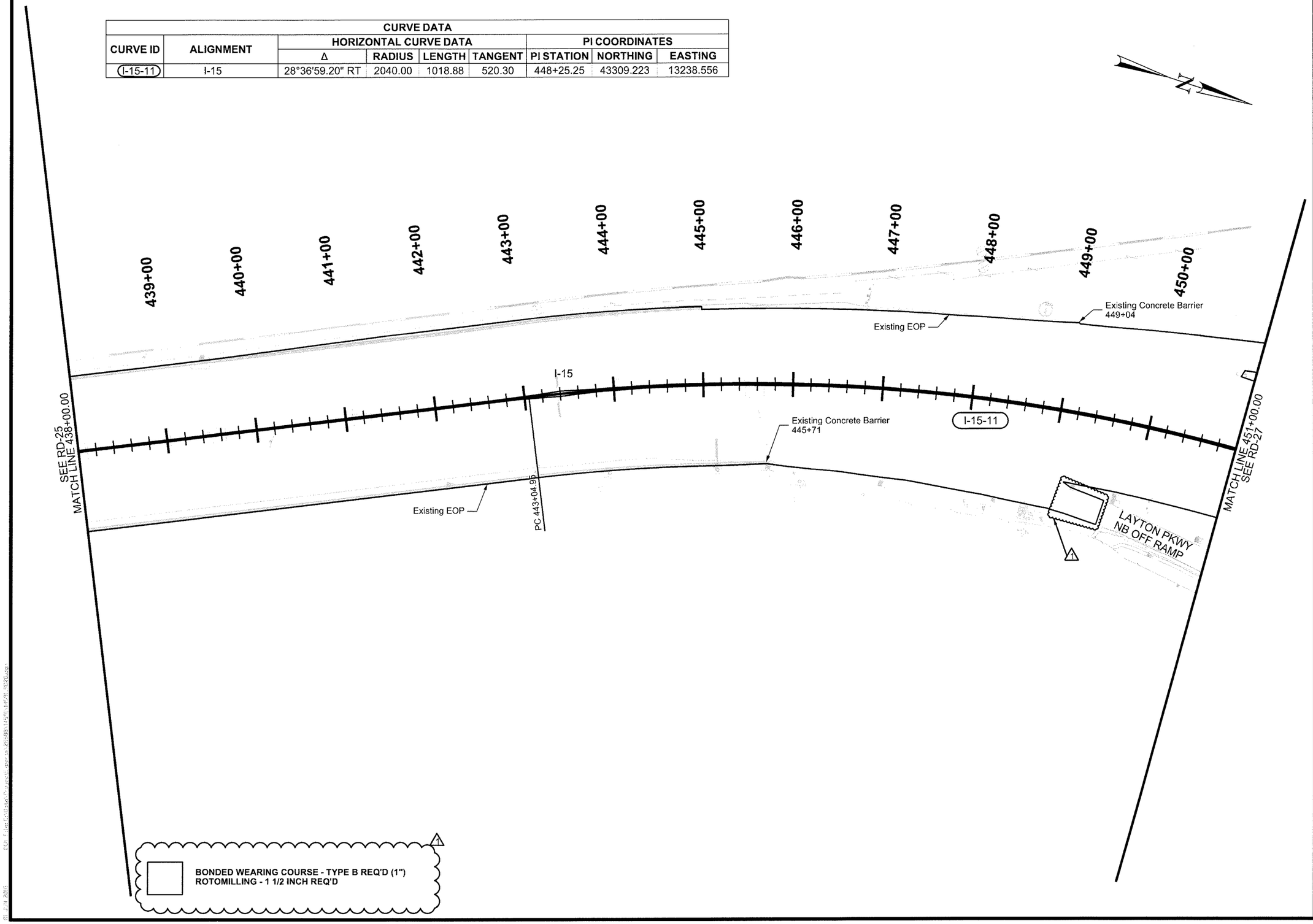
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-25

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-11	I-15	28°36'59.20" RT	2040.00	1018.88	520.30	448+25.25	43309.223	13238.556



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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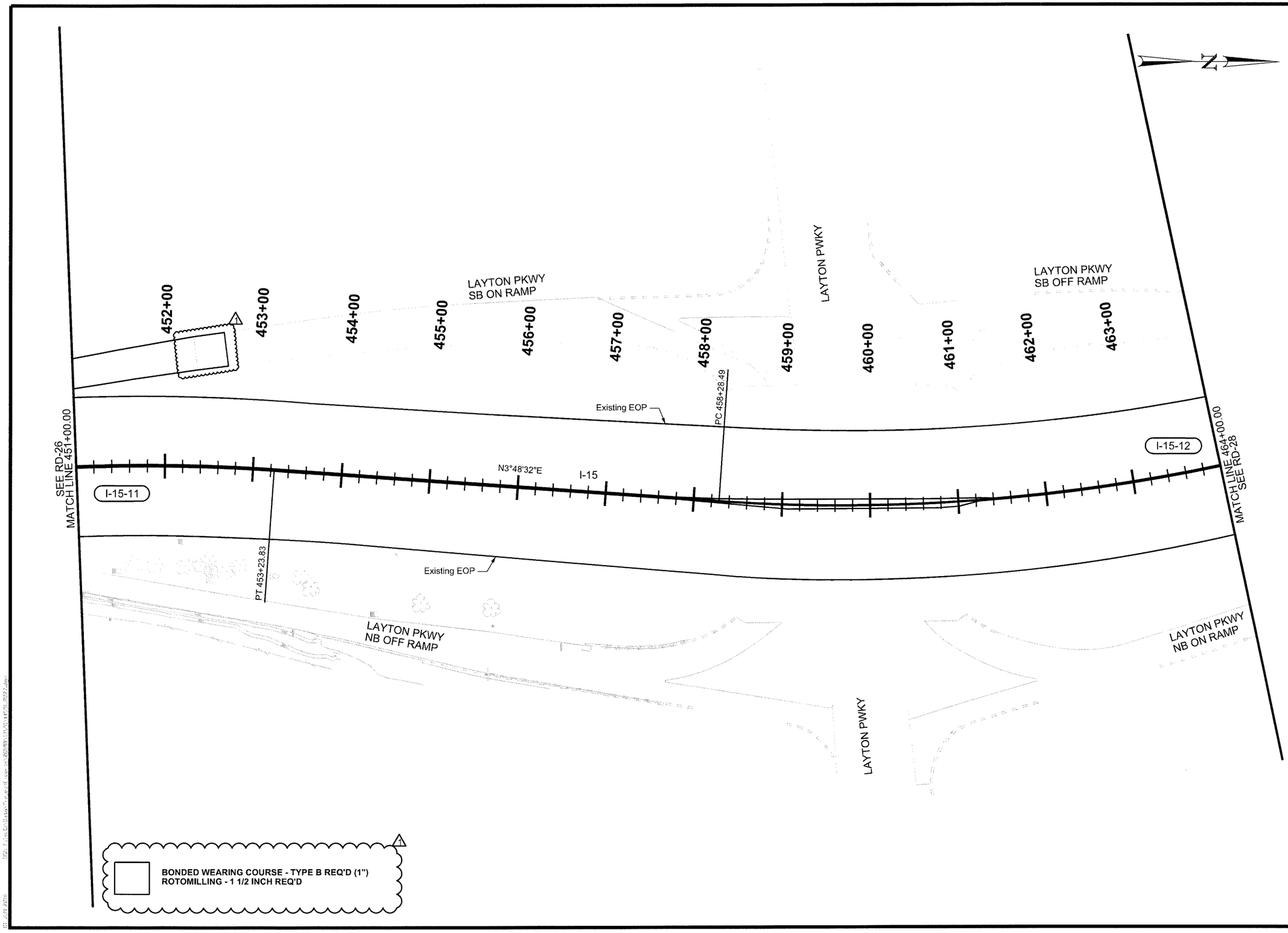
CHECKED BY GSS
DATE 6/1/2016

APPROVED
Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-26



REVISIONS				
NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

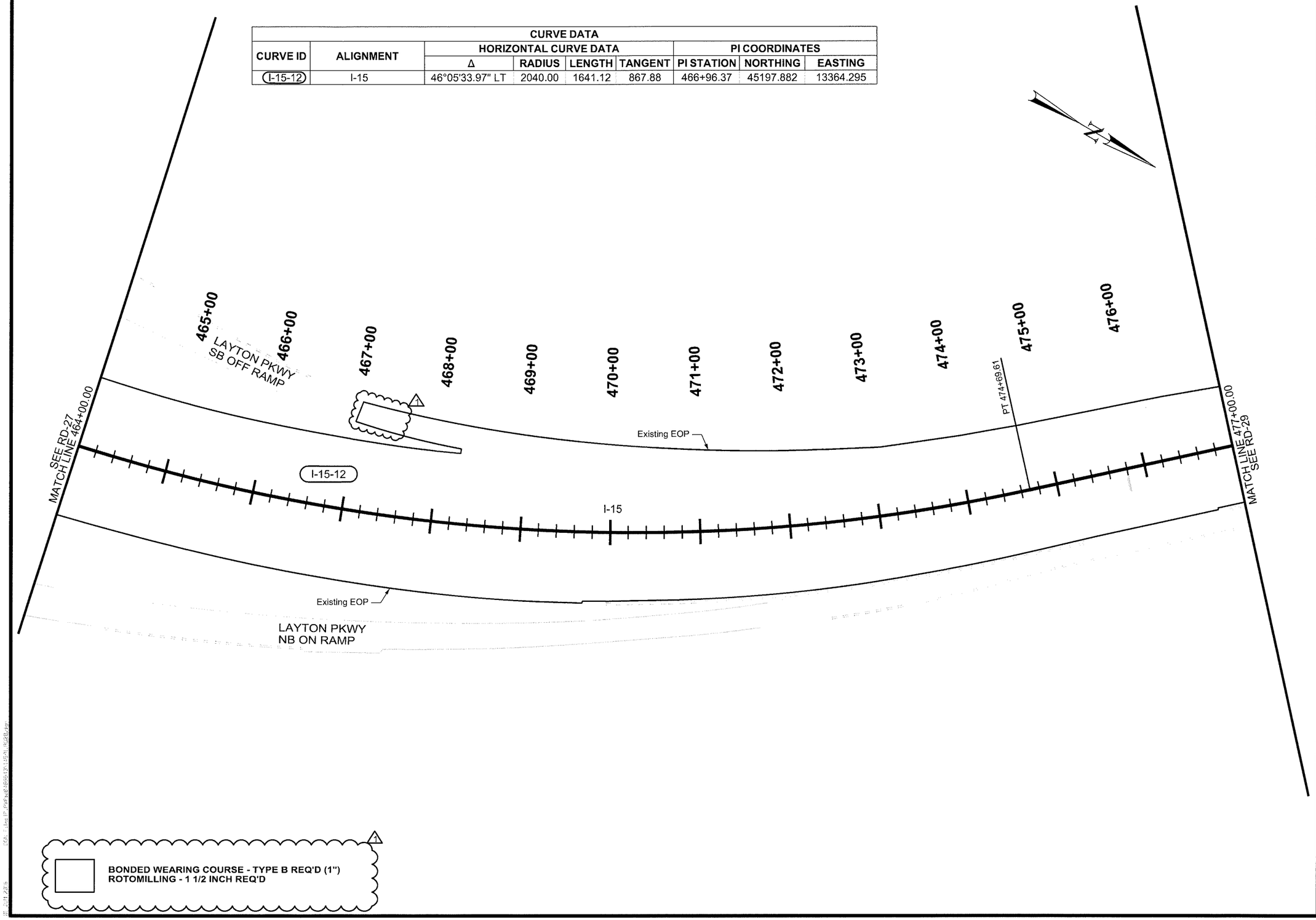
DRAWN BY JDR
QC CHECKED BY GSS
DATE 6/1/2016

APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-27

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-12	I-15	46°05'33.97" LT	2040.00	1641.12	867.88	466+96.37	45197.882	13364.295



REVISIONS				
NO.	DATE	APPROVED BY	REMARKS
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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APPROVED
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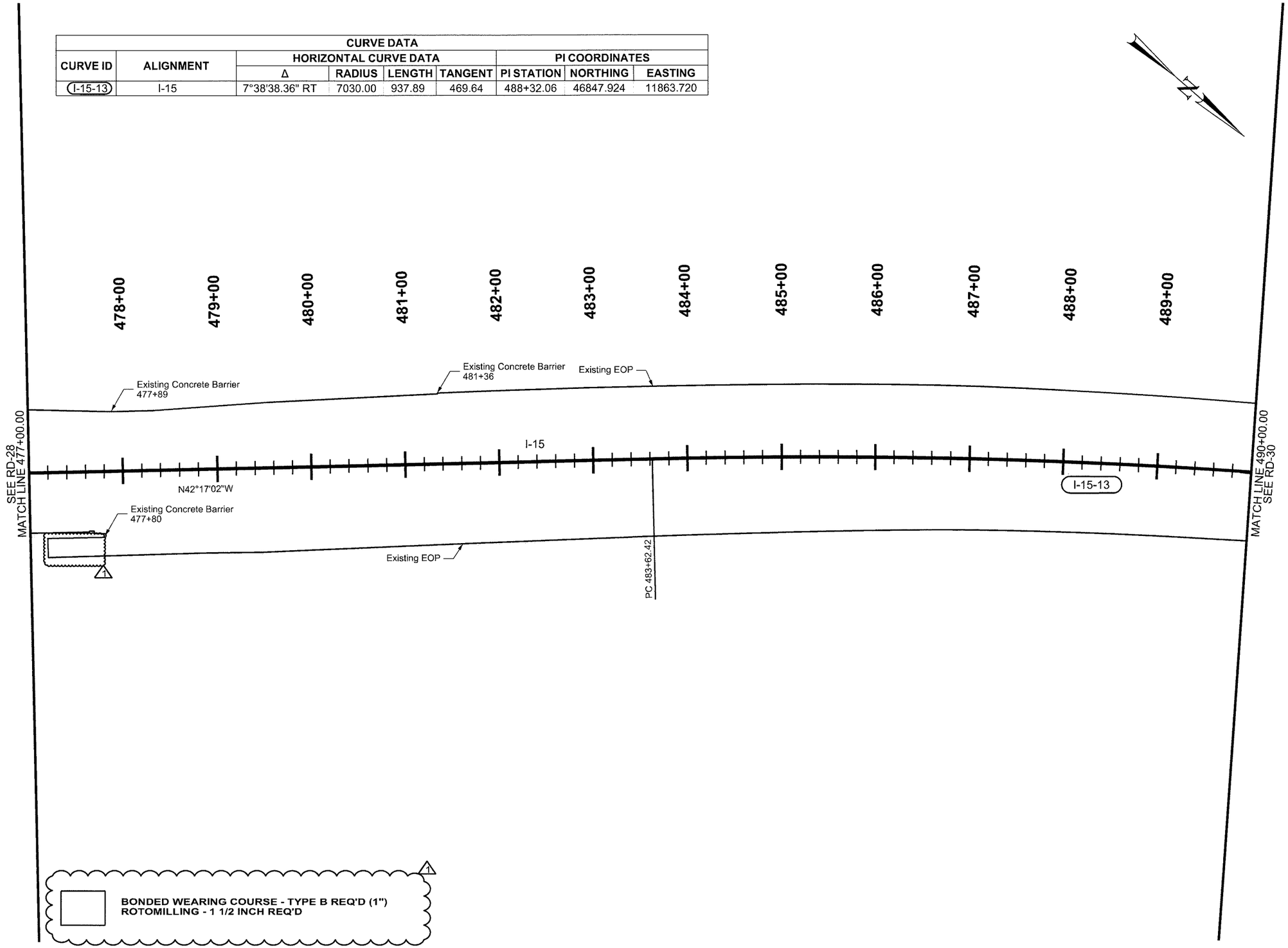
PROFESSIONAL ENGINEER
6/1/2016
DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-28

CURVE DATA								
CURVE ID	ALIGNMENT	HORIZONTAL CURVE DATA				PI COORDINATES		
		Δ	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
I-15-13	I-15	7°38'38.36" RT	7030.00	937.89	469.64	488+32.06	46847.924	11863.720



REVISIONS				
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS	
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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DATE 6/1/2016
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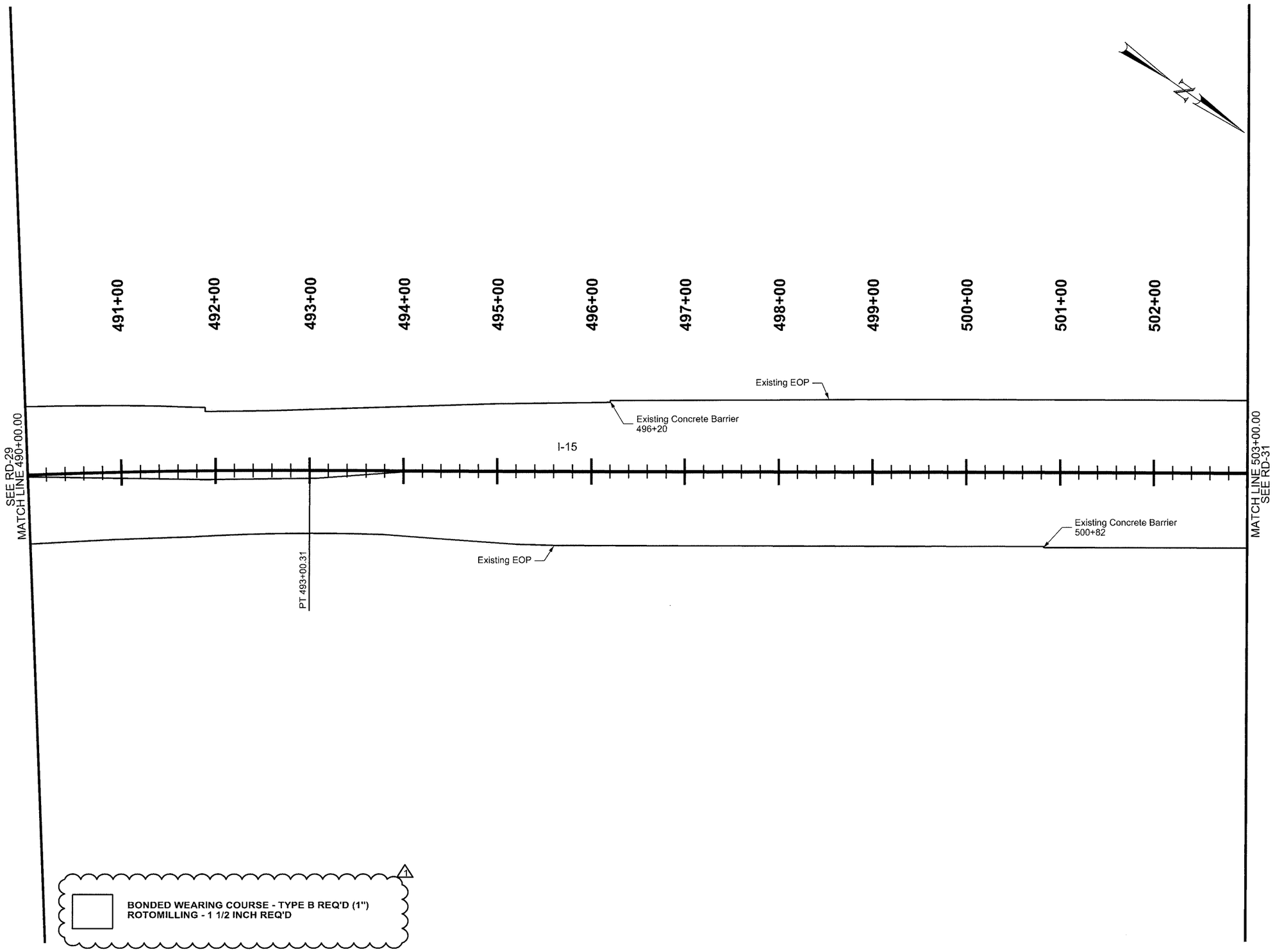
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-29



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
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UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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QC CHECKED BY GSS

APPROVED Brandon A. Humphreys
PROFESSIONAL ENGINEER

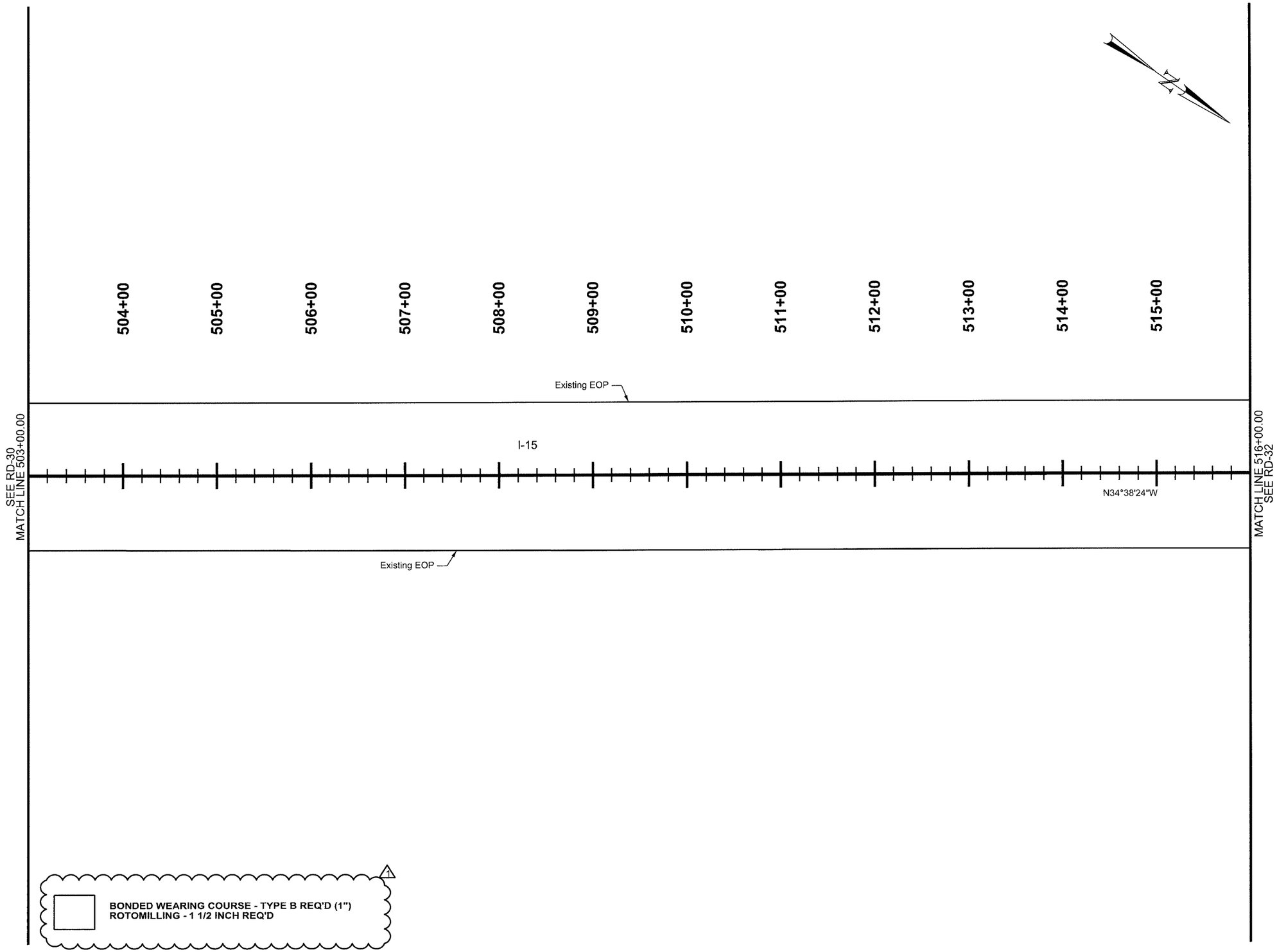
6/1/2016
DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35

PROJECT NUMBER: F-I15-7(333)324 PIN 14591

ROADWAY - OVERLAY

SHEET NO. RD-30



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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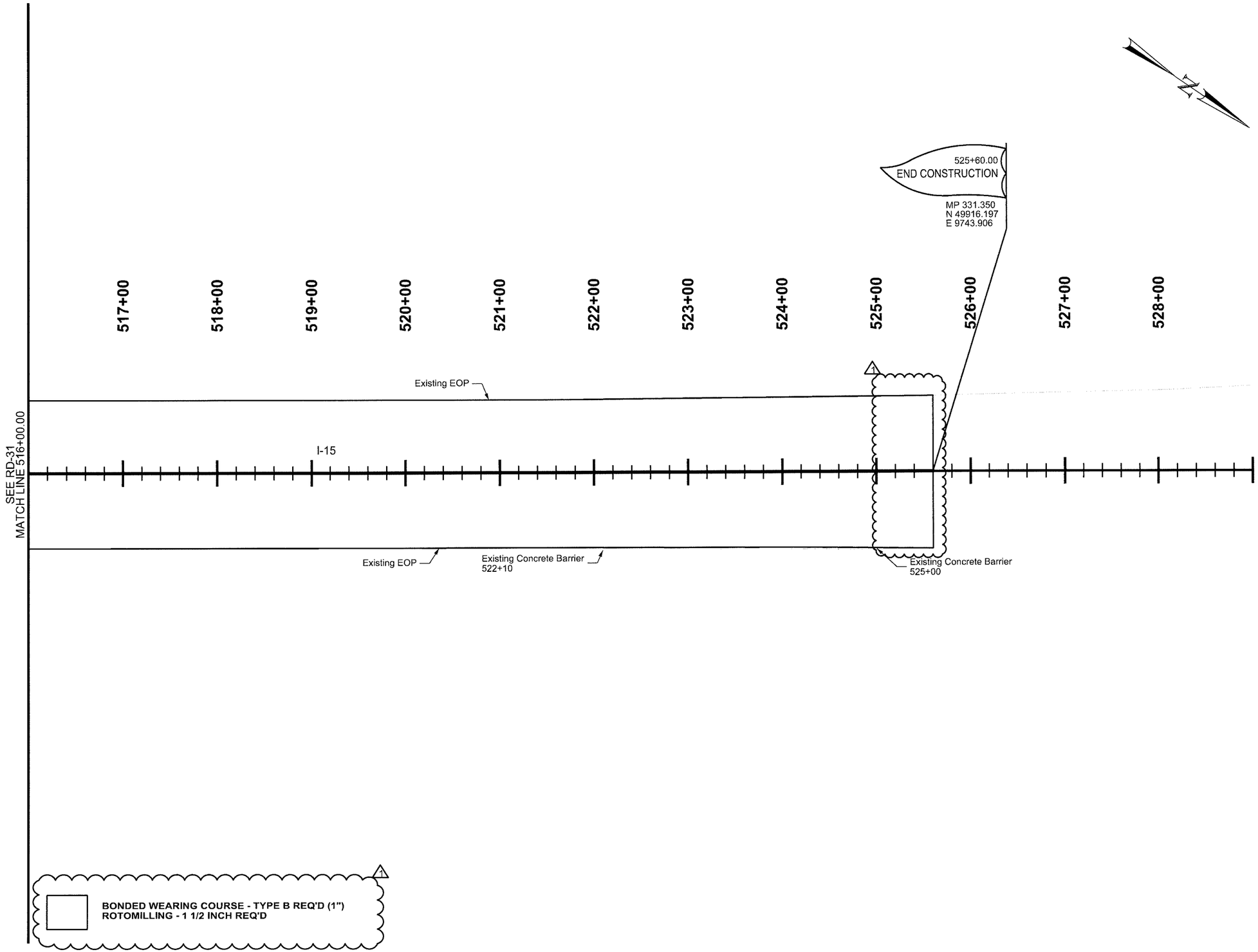
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-31



REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
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2	5-27-16	BAH	INCREASE ROTOMILLING LIMITS

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

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PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324
PIN 14591
ROADWAY - OVERLAY

SHEET NO. RD-32

SUMMARY OF ITEMS

BID ITEM	PAY ITEM NUMBER	PAY ITEM NAME	UNIT	QUANTITY	SHEET NUMBER	CALLOUT LOCATION
1	012850010	MOBILIZATION	LUMP	1	SM-14	
2	013150010	PUBLIC INFORMATION SERVICES	LUMP	1	SM-14	
3	015540005	TRAFFIC CONTROL	LUMP	1	SM-14	
4	017210010	SURVEY	LUMP	1	SM-14	
5	01892001P	RECONSTRUCT CATCH BASIN	EACH	510	SM-14	
6	02735001P	MICRO-SURFACING SCRATCH COAT	FT	27,324	SM-02	
7	02741005*	LANE LEVELING	TON	2	SM-02	
8	027680005	4 INCH PAVEMENT MARKING TAPE - WHITE	FT	137,225	SM-03 TO SM-11	
9	027680010	8 INCH PAVEMENT MARKING TAPE - WHITE	FT	140,659	SM-03 TO SM-11	
10	027680015	4 INCH PAVEMENT MARKING TAPE - YELLOW	FT	88,156	SM-03 TO SM-11	
11	02768002P	PAVEMENT MESSAGE (PREFORMED THERMOPLASTIC)	EACH	482	SM-03 TO SM-11	
12	027870020	BONDED WEARING COURSE - TYPE B	SQ YD	776,436	SM-02	
13	028910020	SIGN TYPE A-1	SQ FT	1,628	SM-12 TO SM-13	
14	028910075	SIGN TYPE A-2	SQ FT	264	SM-12 TO SM-13	
15	02891024P	REPLACE SIGN PANEL GREATER THAN OR EQUAL TO 20 SQUARE FEET	EACH	4	SM-12 TO SM-13	
16	028910270	REMOVE SIGN LESS THAN 20 SQUARE FEET	EACH	2	SM-12 TO SM-13	
17	028910275	REMOVE SIGN GREATER THAN OR EQUAL TO 20 SQUARE FEET	EACH	17	SM-12 TO SM-13	
18	028910335	CONSTANT SLOPE BARRIER MOUNTED TUBULAR STEEL SIGN BASE (B5A)	EACH	33	SM-12 TO SM-13	
19	02891045P	POST 4 INCH NOMINAL SCHEDULE 80 STANDARD PIPE	EACH	33	SM-12 TO SM-13	
2 20	029610025	ROTOMILLING - 1 1/2 INCH	SQ YD	776,447	SM-02	

REVISIONS

NO.	DATE	APPROVED BY	REMARKS
2	5-27-16	BAH	INCREASE ROTOMILLING QUANTITY
1	5-19-16	HB	Revised Pay Item for Sign Post

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY ASV
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER F-I15-7(333)324 PIN 14591
SUMMARY

SHEET NO. SM-01

SURFACING SUMMARY

LINE	STATION		LENGTH	BONDED WEARING COURSE - TYPE B				HOT MIX ASPHALT HMA - 1/2 INCH (PG 64-34) LANE LEVELING (147 LB/CF)				REMARKS
	FROM	TO	FT	AVG WIDTH FT	DEPTH IN	AREA SQ FT	AREA SQ YD	AVG WIDTH FT	DEPTH IN	VOL CU FT	TON	
I-15	116+40.00	525+60.00	40,920	170.77	1	6,987,920	776,436					
I-15	145+98.00	146+02.00	4					24.00	3	24	1.8	Dip infill
TOTAL							776,436				2	

ROTOMILLING SUMMARY

LINE	STATION		LENGTH	MEASURED AREA	ROTOMILLING - 1½ INCH	REMARKS
	FROM	TO	FT	SQ FT	SQ YD	
I-15	145+98.00	146+02.00	4	96	11	US 89 NB OFF RAMP
I-15	116+40.00	525+60.00	40,920	6,987,924	776,436	DIP INFILL
TOTAL					776,447	

MICRO-SURFACING SCRATCH COAT SUMMARY

LINE	STATION		STATION		LENGTH	MICRO-SURFACING SCRATCH COAT	REMARKS
	FROM	OFFSET	TO	OFFSET	FT	FT	
I-15	443+00.00	LT	525+60.00	LT	8,260	8260	SB inside shoulder
I-15	443+00.00	RT	525+60.00	RT	8,260	8260	NB inside shoulder
I-15	451+00.00	LT	467+00.00	LT	1,600	1280	SB outside shoulder
I-15	450+00.00	RT	478+00.00	RT	2,800	2240	NB outside shoulder
I-15	474+00.00	LT	522+05.00	LT	4,805	3844	SB outside shoulder
I-15	482+00.00	RT	525+00.00	RT	4,300	3440	NB outside shoulder
TOTAL						27324	

REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-16	BAH	INCREASE ROTOMILLING QUANTITY

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY ASV
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER F-I15-7(333)324 PIN 14591
SUMMARY

SHEET NO. SM-02

MISCELLANEOUS SUMMARY

LINE	MOBILIZATION	PUBLIC INFORMATION SERVICES	TRAFFIC CONTROL	SURVEY	RECONSTRUCT CATCH BASIN	REMARKS
	LUMP	LUMP	LUMP	LUMP	EACH	
I -15	1	1	1	1	50	
TOTAL	1	1	1	1	50	

1

REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-16	BAH	REDUCE RECONSTRUCTION CATCH BASIN QUANTITY

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

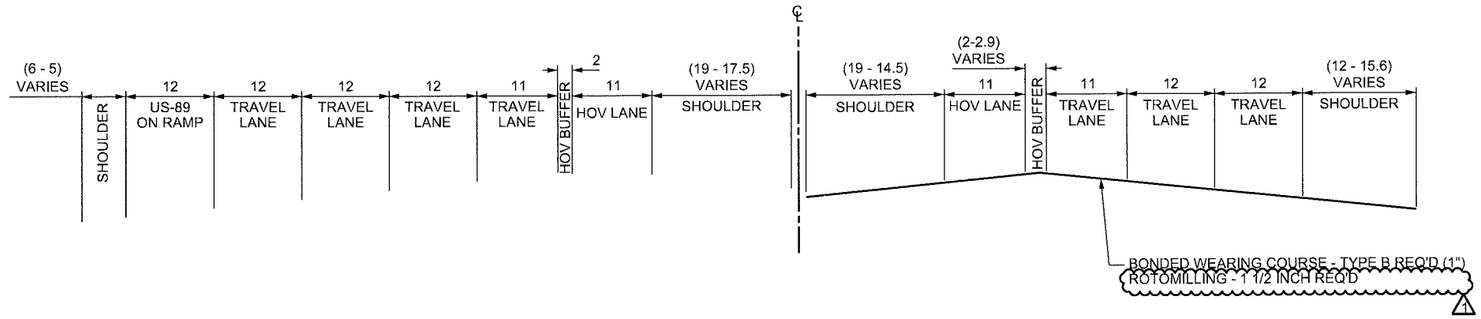
DRAWN BY ASV
QC CHECKED BY GSS
DATE 6/1/2016

APPROVED
Brandon A. Humphrey
PROFESSIONAL ENGINEER

PROJECT I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER F-I15-7(333)324 PIN 14591

SUMMARY

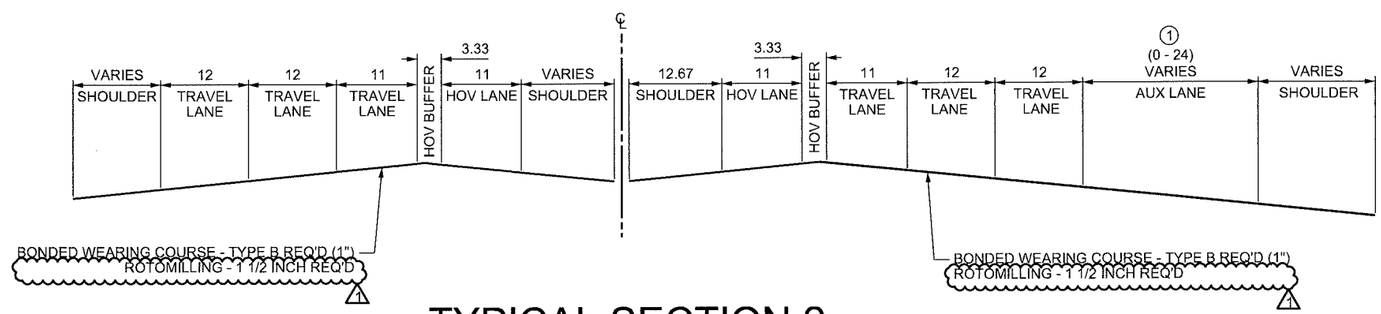
SHEET NO. SM-14



TYPICAL SECTION 1

I-15

116+40.00 TO 119+80.00
DESIGN SPEED 70 MPH
CLEAR ZONE 34 FT



TYPICAL SECTION 2

I-15

119+80.00 TO 257+89.00
DESIGN SPEED 70 MPH
CLEAR ZONE 34 FT

NOTES:

1. AUXILIARY LANE FROM APPROXIMATELY 124+00 TO 135+00 AND FROM 166+00 TO 257+89.00.

REVISIONS

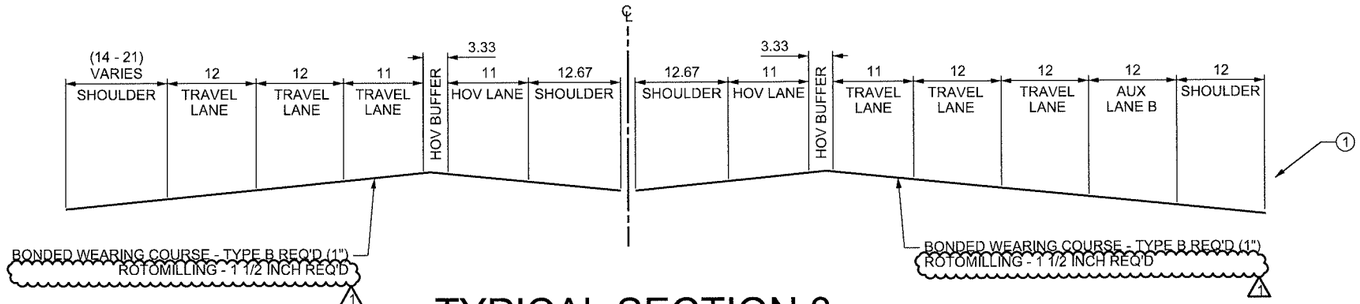
NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-18	BAH	ADD ROTOMILLING - 1 1/2 INCH

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY TRE
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
TYPICAL SECTIONS - OVERLAY

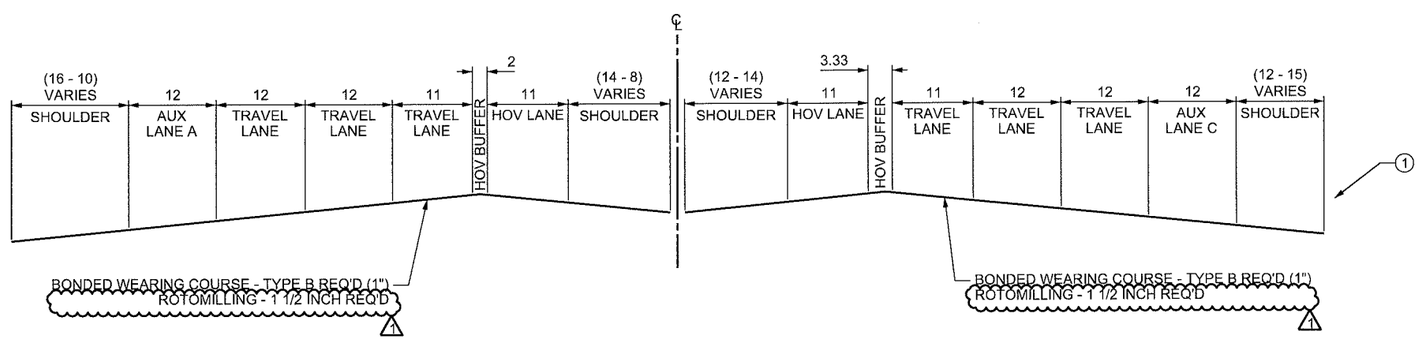
SHEET NO. TS-02



TYPICAL SECTION 3

I-15

257+89.00 TO 363+36.50
DESIGN SPEED 70 MPH
CLEAR ZONE 34 FT



TYPICAL SECTION 4

I-15

401+20.00 TO 445+00.00
DESIGN SPEED 70 MPH
CLEAR ZONE 34 FT

NOTES:

1 PRESENCE OF BARRIER VARIES.

REVISIONS

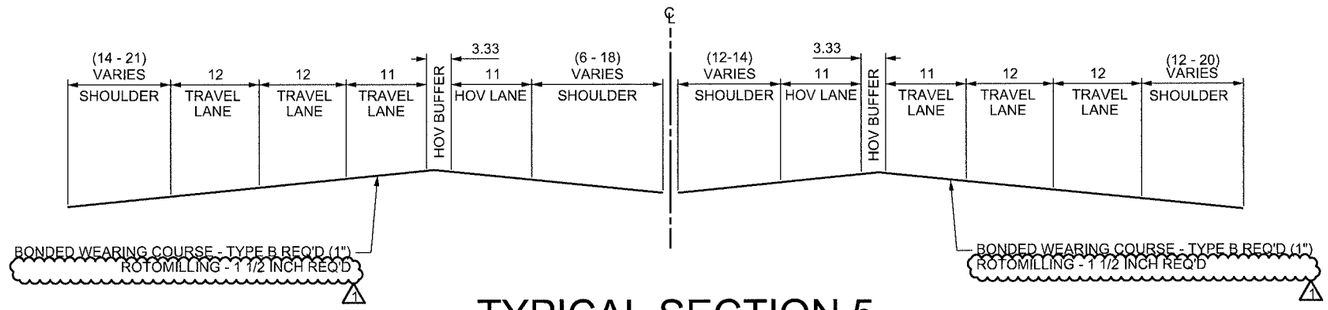
NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-16	BAH	ADD ROTOMILLING - 1 1/2 INCH
1			

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY TRE
QC CHECKED BY GSS
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER
6/1/2016
DATE

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
TYPICAL SECTIONS - OVERLAY

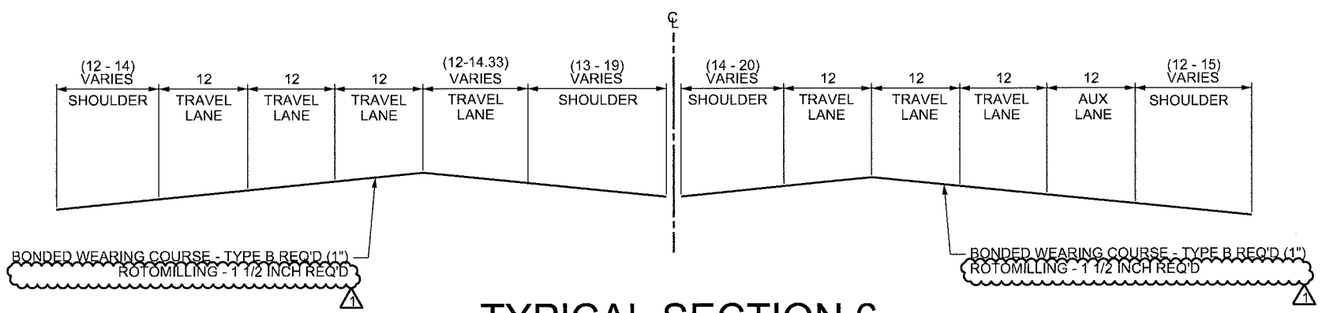
SHEET NO. TS-03



TYPICAL SECTION 5

I-15

363+36.50 TO 401+20.00
445+00.00 TO 500+81.00
DESIGN SPEED 70 MPH
CLEAR ZONE 34 FT



TYPICAL SECTION 6

I-15

500+81.00 TO 525+60.00
DESIGN SPEED 70 MPH
CLEAR ZONE 34 FT

REVISIONS

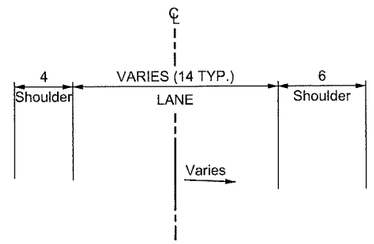
NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-16	BAH	ADD ROTOMILLING - 1 1/2 INCH

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY TRE
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphries
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
TYPICAL SECTIONS - OVERLAY

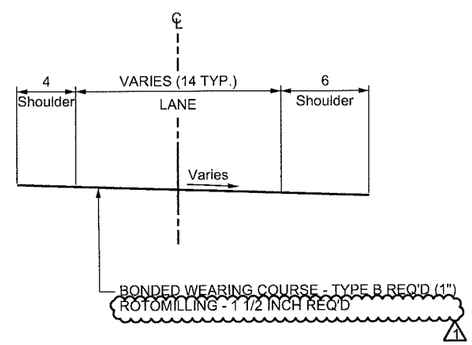
SHEET NO. TS-04



Existing Section 3

TYPICAL RAMP

VARIES (1)



TYPICAL SECTION 7

TYPICAL RAMP

VARIES (1)

DESIGN SPEED 50 MPH

CLEAR ZONE 20 FT

NOTES:

(1) TYPICAL APPLIES TO THE RAMPS AT PARK LANE, LEGACY PARKWAY, 200 NORTH, LAYTON PARKWAY, AND US-89.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-16	BAH	ADD ROTOMILLING - 1 1/2 INCH

UTAH DEPARTMENT OF TRANSPORTATION

REGION DESIGN

DRAWN BY TRE

QC CHECKED BY GSS

APPROVED Brandon A. Humphrey

PROFESSIONAL ENGINEER

6/1/2016

DATE

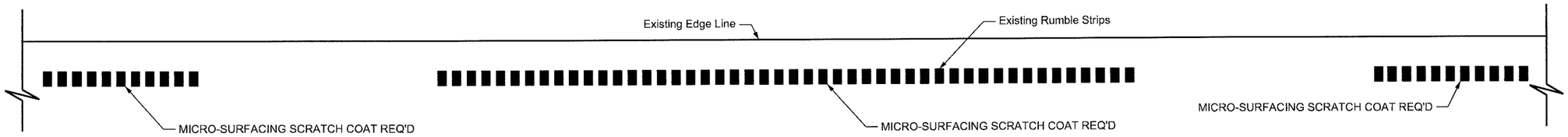
PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35

PROJECT NUMBER: F-I15-7(333)324 PIN 14591

TYPICAL SECTIONS - OVERLAY

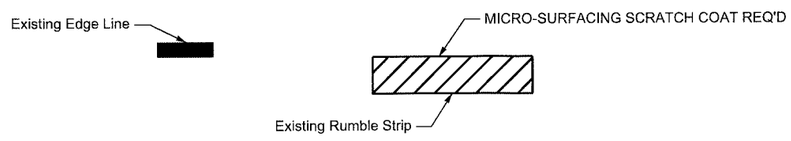
SHEET NO. TS-05

1



RUMBLE STRIP MICRO-SURFACING SCRATCH COAT PLAN

OUTSIDE SHOULDER SHOWN INSIDE SHOULDER SIMILAR



RUMBLE STRIP MICRO-SURFACING SCRATCH COAT SECTION

OUTSIDE SHOULDER SHOWN INSIDE SHOULDER SIMILAR

REVISIONS

NO.	DATE	APPROVED BY	REMARKS
6			
5			
4			
3			
2	5-27-16	BAH	DELETE DETAIL

UTAH DEPARTMENT OF TRANSPORTATION
REGION DESIGN

DRAWN BY JDR
QC CHECKED BY GSS
DATE 6/1/2016
APPROVED Bradley A. Humphrey
PROFESSIONAL ENGINEER

PROJECT: I-15; BONDED OVERLAY, MP 323.6 TO 331.35
PROJECT NUMBER: F-I15-7(333)324 PIN 14591
DETAILS

SHEET NO. DT-01